Forty-sixth Annual Catalogue

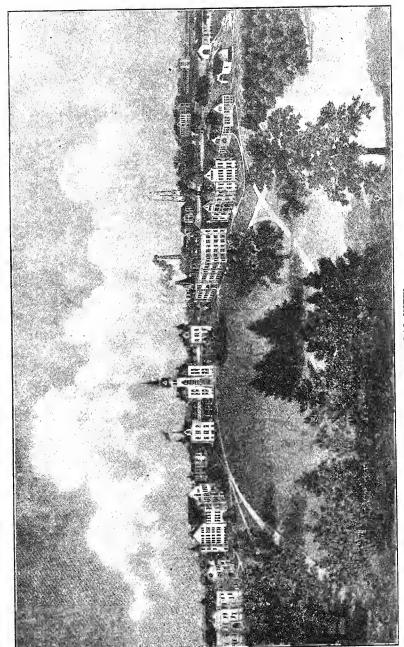
Of the Officers, Students and Graduates of the

Kansas State Agricultural College,

Manhattan.

1908-'09.

STATE PRINTING OFFICE, TOPEKA, 1909.



GENERAL VIEW.

TERMS AND VACATIONS.

FALL TERM, 1909, THIRTEEN WEEKS.

Wednesday, September 22.—Examination for admission, at nine A. M. Thursday, September 23.—College year begins.
Thursday, September 23.—Short course in domestic science begins.
Saturday, November 6.—Mid-term examination.
Thursday, November 25.—Thanksgiving Day vacation.
Thursday and Friday, December 23, 24.—Examination at close of term.

WINTER TERM, 1910, TWELVE WEEKS.

MONDAY, JANUARY 3.—Examination for admission, at nine A. M. TUESDAY, JANUARY 4.—Winter term begins.

TUESDAY, JANUARY 4.—Short courses in agriculture and dairying begin.

SATURDAY, FEBRUARY 12.—Mid-term examination.

THURSDAY AND FRIDAY, MARCH 24, 25.—Examination at close of term.

SPRING TERM, 1910, ELEVEN WEEKS.

Monday, March 28.—Examination for admission, at nine A. M. Tuesday, March 29.—Spring term begins.

Saturday, May 7.—Mid-term examination.

Tuesday, May 17.—Beginning of summer course in domestic science.

Tuesday and Wednesday, June 14, 15.—Examination at close of year.

June 12 to 16.—Exercises of commencement week.

Thursday, June 16, at ten A. M.—Commencement.

June 17 to September 21.—Summer vacation.

FALL TERM, 1910.

Wednesday, September 21.—Examination for admission, at nine a. m. &hursday, September 22.—College year begins.

Students must be present the very first day of each term or render a reasonable excuse. Failure to take out an assignment will not be accepted as an excuse.

BOARD OF REGENTS.

Hon. W. E. BLACKBURN (1911)¹, President, Anthony, Harper county.

Hon. J. O. TULLOSS (1911), Vice-president, Sedan, Chautauqua county.

> Hon. EDWIN TAYLOR (1911), Edwardsville, Wyandotte county.

Hon. W. A. HARRIS (1913), Lawrence, Douglas county.

Hon. A. L. SPONSLER, (1913), Hutchinson, Reno county.

Hon. ARTHUR CAPPER (1913), Topeka, Shawnee county.

PRES. E. R. NICHOLS (ex officio), Secretary, Manhattan, Riley county.

MISS LORENA E. CLEMONS, Assistant Secretary, Manhattan, Riley county.

^{1.} Term expires.

BOARD OF INSTRUCTION.

THE FACULTY.

- ERNEST R. NICHOLS, B. D. (Iowa State Normal School), A. M. (University of Iowa),

 President.
 - EDWIN H. WEBSTER, B. S. A. (Iowa State College), M. S. (Kansas State Agricultural College),
 Director of Experiment Station, Dean of Agriculture.
- JOHN D. WALTERS, D. A. (Kansas State Agricultural College), Professor of Architecture and Drawing.
- JULIUS T. WILLARD, D. Sc. (Kansas State Agricultural College),
 Professor of Chemistry, Vice-director.
 - BENJ. L. REMICK, Ph. M. (Cornell College), Professor of Mathematics.
 - BENJ. F. EYER, B. S., E. E. (Armour Institute of Technology),

 Professor of Electrical Engineering.
- HERBERT F. ROBERTS, A. B. (University of Kansas), M. S. (Kansas State Agricultural College),

 Professor of Botany.
 - WILLIAM A. McKEEVER, Ph. M. (University of Chicago),
 Professor of Philosophy.
 - EDMUND B. McCORMICK, S. B. (Massachusetts Institute of Technology),
- Professor of Mechanical Engineering, Dean of Mechanic Arts, Superintendent of Shops.
 - ALBERT DICKENS, M. S. (Kansas State Agricultural College),
 Professor of Horticulture, Superintendent of Grounds.
- CLARK M. BRINK, A. M. (University of Rochester), Ph. D. (University of City of New York),

 Professor of English, Dean of Science.
 - ALBERT M. TEN EYCK, B. Agr. (Wisconsin), Professor of Agronomy, Superintendent of Farm.
 - RALPH R. PRICE, A. B. (Baker), A. M. (University of Kansas),
 Professor of History and Civics.

JULIUS E. KAMMEYER, A. M. (Central Wesleyan College),
Professor of Economics.

JOHN V. CORTELYOU, A. M. (University of Nebraska), Ph. D. (Heidelberg),
Professor of German.

OLAF VALLEY, B. M. (Chicago Conservatory),
Professor of Music.

FRANCIS S. SCHOENLEBER, M. S. A. (Iowa State Agricultural College), D. V. S. (Chicago Veterinary College),

Professor of Veterinary Science.

ROLAND J. KINZER, B. S. Agr. (Iowa State College),
Professor of Animal Husbandry.

WALTER E. KING, M. S. (Cornell University),
Professor of Bacteriology.

THOMAS J. HEADLEE, Ph. D. (Cornell University),
Professor of Entomology.

CHAS. H. BOICE, First Lieutenant Seventh Cavalry, U. S. A., Professor of Military Science.

> JOHN C. KENDALL, B. S. (N. H. A. & M.), Professor of Dairy Husbandry.

JOHN O. HAMILTON, B. S. (Chicago),
Professor of Physics.

MRS. MARY P. VAN ZILE (Kansas State Agricultural College), (Iowa State College),

Professor of Domestic Science, Dean of Women.

JOSHUA D. RICKMAN, Superintendent of Printing.

MISS MARGUERITE E. BARBOUR (Sargent Normal School of Physical Training),
Director of Physical Training.

MISS ANTONETTA BECKER (Drexel), Superintendent of Domestic Art.

ROBERT J. BARNETT, B. S. (Kansas State Agricultural College),
Principal Preparatory Department.

MISS GERTRUDE BARNES,¹
Librarian.

^{1.} Since December 1, 1908.

JOHN H. MILLER, A. M., Superintendent Farmers' Institutes.

MISS LORENA E. CLEMONS, B. S. (Kansas State Agricultural College),
Secretary.

WILLIAM R. LEWIS, Custodian.

ASSISTANTS.

JACOB LUND, M. S. (Kansas State Agricultural College), Superintendent Heat and Power Department.

ANDREY A. POTTER, S. B. (Massachusetts Institute of Technology),
Assistant Professor of Mechanical Engineering.

ROBERT H. BROWN, B. M. (Kansas Conservatory of Music), B. S. (Kansas State Agricultural College),

Assistant Professor of Music.

BENJAMIN R. WARD, A. M. (Harvard), Assistant Professor of English.

GEO. A. DEAN, M. S. (Kansas State Agricultural College),
Assistant Professor of Entomology.

GEORGE F. FREEMAN, B. S. (Alabama Polytechnic Institute),
Assistant Professor of Botany.

GEO. C. WHEELER, B. S. (Kansas State Agricultural College),
Assistant Professor of Animal Husbandry.

WILLIAM H. ANDREWS, A. B. (University of Chicago),
Assistant Professor of Mathematics.

ROBERT E. EASTMAN, M. S. (Cornell University),
Assistant Professor of Forestry.

LELAND E. CALL, B. S. (Ohio State University)

Assistant Professor of Soils.

LOWELL E. CONRAD, M. S. (Lehigh), Assistant Professor of Civil Engineering.

KIRK W. STOUDER, D. V. M. (Iowa State College),
Assistant Professor of Veterinary Science.

MISS ADA RICE, B.S. (Kansas State Agricultural College), Instructor in English.

KANSAS STATE AGRICULTURAL COLLEGE.

8

MISS ELLA WEEKS, A. B. (University of Kansas),
Instructor in Drawing.

MISS DAISY ZEININGER, B. A. (Fairmount),
Instructor in Mathematics.

LEONARD W. GOSS, D. V. M. (Ohio State University),
Instructor in Veterinary Science.

MISS ULA M. DOW, B. S. (Kansas State Agricultural College), Instructor in Domestic Science.

THEO. H. SCHEFFER, A. M. (Cornell University),
Instructor in Zoology.

HERBERT H. KING, M. A. (Ewing College),
Instructor in Chemistry.

JOHN B. WHELAN, B. S. (Nebraska), Instructor in Chemistry.

LOUIS H. BEALL, A. B. (Denison), Instructor in English.

ROY A. SEATON, B. S. (Kansas State Agricultural College), Instructor in Mechanical Engineering.

WILLIAM L. HOUSE, Foreman of Carpenter Shop.

LOUIS WABNITZ, Foreman of Machine-shops.

MISS INA E. HOLROYD, B. S. (Kansas State Agricultural College),
Assistant in Preparatory Department.

AMBROSE E. RIDENOUR, B. S. (Kansas State Agricultural College)
Foreman of Foundry.

MISS EMMA J. SHORT, Assistant in Preparatory Department.

MISS INA COWLES, B. S. (Kansas State Agricultural College),
Assistant in Domestic Art.

MISS KATE TINKEY, Assistant Librarian.

EARL N. RODELL, B. S. (Kansas State Agricultural College),
Assistant in Printing.

M. FRANCIS AHEARN, B. S. (Massachusetts Agricultural College),
Assistant in Horticulture.

MISS GERTRUDE STUMP, B. S. (Kansas State Agricultural College),
Assistant in Domestic Art.

M. SHELDON BRANDT, Ph. B. (Yale),
Assistant in Architecture and Drawing.

CHAS. YOST,

Assistant in Heat and Power Department.

EARLE B. MILLIARD, Foreman of Blacksmithing.

J. THOMPSON PARKER, Assistant in Woodwork.

JAMES D. MAGEE, A. M. (Chicago), Assistant in Mathematics.

EDWIN G. MEINZER, A. B. (Beloit),

Assistant in German.

MISS FLORENCE S. LATIMER, B. M. (Ferry Hall Seminary),
Assistant in Music.

MISS MARJORIE RUSSELL (Mechanics' Institute),
Assistant in Domestic Science.

BURTON ROGERS, D. V. M. (Iowa State College),
Assistant in Veterinary Science.

MISS CLARA WILLIS (Framingham Normal),
Assistant in Domestic Science.

CHARLES O. SWANSON, M. Agr. (Minnesota), Assistant Chemist, Experiment Station.

EDW. C. CROWLEY, Ph. B. (Yale),
Assistant in Chemistry.

HUGH OLIVER,

Assistant in Heat and Power Department.

MISS CHARLAINE FURLEY, B. A. (Fairmount),

Assistant in English.

MISS JESSIE REYNOLDS, A.B. (University of Kansas),
Assistant in Preparatory Department.

MISS MARY E. NESBIT, A. B. (Illinois University),
Assistant in Mathematics.

MISS ANNETTE LEONARD, A.B. (University of Kansas),
Assistant in English.

WILLIAM C. LANE, B. S. (Kansas State Agricultural College),
Assistant in Electrical Engineering.

MISS FLORA C. KNIGHT, A. B. (University of Wyoming),
Assistant in English.

MISS GRACE H. WOODWARD (Boston School of Domestic Science),
· Assistant in Domestic Science.

MISS NELLIE CAVE, B. M. (University of Nebraska), (Chicago Music College),

Assistant in Music.

MISS MARGARET MACK (Kansas State Normal),
Assistant in Preparatory Department.

EDWIN G. SCHAFER, B. S. (Kansas State Agricultural College),
Assistant in Agronomy.

ORIN A. STEVENS, B. S. (Kansas State Agricultural College), Assistant in Botany.

MISS MARY W. HANCOCK (Mechanics' Institute),
Assistant in Domestic Art.

S. W. McGARRAH, A. M. (Grove City College), Assistant in Mathematics.

CARL G. ELLING, B.S. (Kansas State Agricultural College), Assistant in Animal Husbandry.

> KIRK H. LOGAN, B. S. (University of Kansas), Assistant in Physics.

C. A. ARTHUR UTT, B. S. (Cornell College),
Assistant in Chemistry.

MISS FLORENCE WARNER, B. S. (Illinois University),
Assistant Librarian.

MISS ANNA GORDON, A. B. (Iowa College), Assistant in Preparatory Department.

MISS BERTHA M. JOHNSTON (Simmons College),
Assistant in Domestic Science.

HARRISON E. PORTER, B. S. (Kansas State Agricultural College),
Assistant in Mathematics.

E. LE ROY SIEBER, A. B. (Indiana University),
Assistant in Chemistry.

^{1.} Till January 1, 1909.

CHARLES S. KNIGHT, B. S. Agr. (University of Wisconsin), Assistant in Agronomy.

EARLE BRINTNALL, B. S. (Iowa State College),
Assistant in Dairy Husbandry.

JOHN B. PARKER, M. A. (Ohio State University),
Assistant in Entomology.

ALLEN G. PHILIPS, B. S. (Kansas State Agricultural College),
Assistant in Poultry Husbandry.

MISS GERTRUDE CANNON (Bethany College), (Oberlin Conservatory),

Assistant in Music.

MISS BERTHA BISBEY, Assistant in Preparatory Department.

FRED M. HAYES, D. V. M. (Kansas State Agricultural College),
Assistant in Veterinary Science.

LELAND D. BUSHNELL, B. S. (Michigan Agricultural College),
Assistant in Bacteriology.

MISS BERTHA DONALDSON (Chicago University),
Assistant in Domestic Art.

MISS ELIZABETH PUTNAM (Chicago Art Institute),
Assistant in Drawing.

LUTHER E. PETTY, A. B. (Wabash College),
Assistant in Mathematics.

JULES C. CUNNINGHAM, B. S. (Kansas State Agricultural College),
Assistant in Horticulture.

MISS ANNIE E. LINDSEY (Simmons College),
Assistant in Domestic Science.

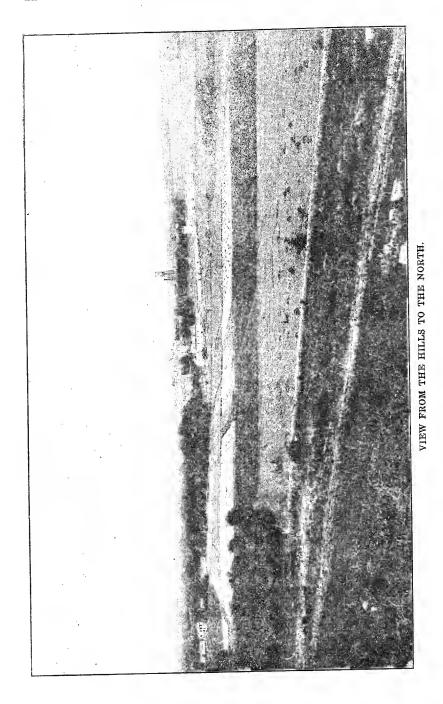
HAROLD E. KIRBY, Assistant in Printing.

JOHN E. SMITH, B. S. (Oregon Agricultural College),
Assistant in Botany.

RAYMOND C. WILEY, B. S. (Oklahoma A. and M. College), Assistant in Chemistry.

D. EDMOND RUDOLPH, Band Leader.

PORTER J. NEWMAN, B. S. (Franklin),
Assistant in Chemistry.



AGRICULTURAL EXPERIMENT STATION.

EXPERIMENTING STAFF.

ERNEST R. NICHOLS, President of the College. EDWIN H. WEBSTER, 1 Director.

JULIUS T. WILLARD, Vice-director; Chemist. HERBERT F. ROBERTS, Botanist.

ALBERT DICKENS, Horticulturist.

ALBERT M. TEN EYCK, Agronomist.

FRANCIS S. SCHOENLEBER, Veterinarian ROLAND J. KINZER, Animal Husbandman.

THOMAS J. HEADLEE, Entomologist.

WALTER E. KING, Bacteriologist.

JOHN C. KENDALL, Dairy Husbandman.

ASSISTANTS.

GEORGE A. DEAN, Assistant Entomologist.

ROBERT E. EASTMAN, Assistant Horticulturist.
GEORGE F. FREEMAN, Assistant Botanist.
GEORGE C. WHEELER, Assistant Animal Husbandman.
CHARLES O. SWANSON, Assistant Chemist.
LELAND E. CALL, Assistant Agronomist.
EDWIN G. SCHAFER, Assistant Agronomist.
CARL G. ELLING,² Assistant Animal Husbandman.
EARLE BRINTNALL, Assistant Dairy Husbandman.
KIRK W. STOUDER, Assistant Veterinarian.
ETHEL W. EDWARDS, Executive Clerk.

FORT HAYS BRANCH STATION.

CHALMERS K. McCLELLAND, Superintendent.
ANDREW D. COLLIVER,² Assistant in Agriculture.
JAMES A. MILHAM, Assistant in Animal Husbandry.
C. C. CUNNINGHAM,³ Assistant in Horticulture.
GEORGE K. HELDER, Secretary.

^{1.} Since December 21, 1908.

^{2.} Till January 1, 1909.

^{3.} Since January 23, 1909.

THE COLLEGE CADET CORPS.

The following is a roster of the commissioned and non-commissioned officers of the Kansas State Agricultural College Corps of Cadets for 1908-'09:

COMMANDANT OF CADETS.

First Lieut. CHARLES H. BOICE, Seventh United States Cavalry. Staff.

DAVID A. KRATZER, Cadet Major.

ANTON HANSON, Cadet Captain and Adjutant.

CLARO PENDON, Cadet Captain and Quartermaster.

H. RAE ANDERSON, Cadet Regimental Sergeant-major.

W. L. PEARSON, Cadet Color Sergeant.

W. W. CASTEEL, Cadet Regimental Quartermaster-sergeant.

O. S. Holroyd, Cadet Sergeant and Chief Trumpeter.

Rank.	Company A.	Company B.
Captain. First Lieutenant. Second Lieutenant. First Sergeant. Sergeants.		Roscoe A. Branson. R. I. Harris. H. Broberg.
Corporals	Glen Buckman. Oscar York. Chas. W. Clark. Wm. Honska. J. A. Vahringer. G. A. Markle.	H. G. Plumb. M. L. Laude. G. E. Lee. E. A. McNeal. D. E. Mossman.
Musicians	Dwight Hull. Elmer B. Meyers. Don H. Wageman.	G. R. Fickel. O. E. Williams.

RANK.	Company C.	Company D.
Captain. First Lieutenant. Second Lieutenant. First Sergeant. Sergeants. Corporals.	F. E. Wilson H. W. McFadden B. J. McFadden	F. J. Baird. L. L. Boulton.
Musicians	Wm. O'Connell	S. F. Hacker.

RANK.	Company E.	Company F.
Captain. First Lieutenant. Second Lieutenant. First Sergeant. Sergeants.	Frank Weber. J. E. Jenkins. S. M. Ransonber	D. F. Hungerford. C. G. Fry. R. W. Getty. H. M. Noel. E. Hageman. D. R. Hull. C. Hartwig. W. C. Heslip. W. O. Dunn. C. A. Scheneck.
usicians	Carl Reed	R. A. Moore. R. D. Swanson. Chas. H. Stacy. B. I. Millican.

THE COLLEGE BAND.

The following is the roll of the College Band for the year 1908-'09:

D. E. RUDOLPH, Band Leader.

J. HOWENSTINE, Drum-major.

M. S. Collins, Principal Musician.

Sergeants: L. R. Hain, V. Florell, F. G. Pollom, C. Sterling, G. H. Ross.

Corporals: V. E. DYATT, N. B. NEEDHAM, L. B. WALCOTT, B. O. WARREN, R. BOISELLE, E. J. WALTERS, A. HALL, C. C. WALCOTT.

Clarinets: H. A. Rankin. C. M. Gibson. Floyd Davis. L. E. Myers. E. J. Walters. A. Adams. Saxophones: F. Kramer. V. E. Dyatt. B. O. Warren.

Cornets:
N. B. Needham.
Bert Haigler.
F. G. Pollom.

R. Boiselle. G. H. Ross. K. Phillipps.

I. Ingraham.
T. A. Case.
E. M. McDonald.

Baritones:

L. B. Malcott. P. Stueve. A. Hall.

Horns:
C. C. Walcott.
R. G. Trexler.
L. W. Rexroad.
F. W. Fowler. John Gill.

Trombones:
M. S. Collins.
V. Florell.
F. Robinson. Chas. Myszka.

Basses:

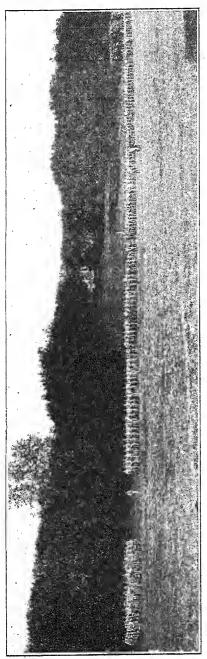
C. Sterling. N. Melbert. L. Howenstine.

Drums:

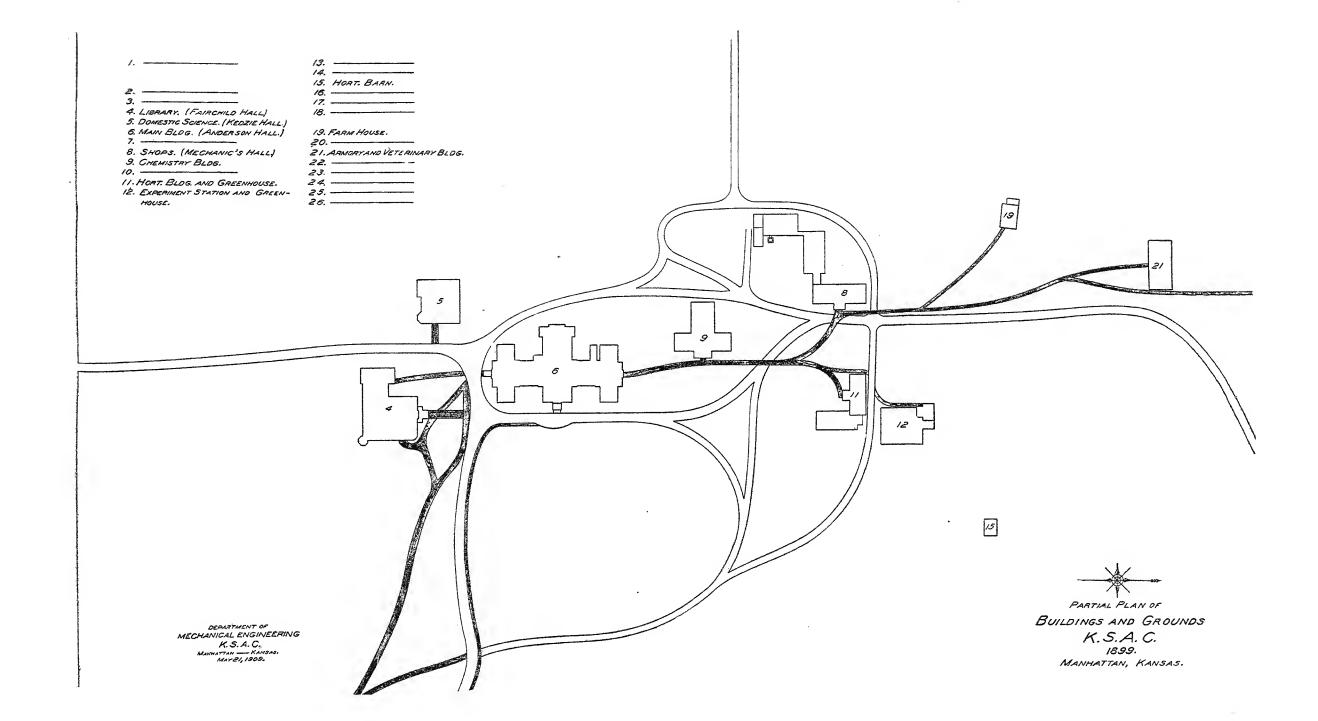
nms.
D. G. Roth.
L. R. Hain.
E. F. Kittell.

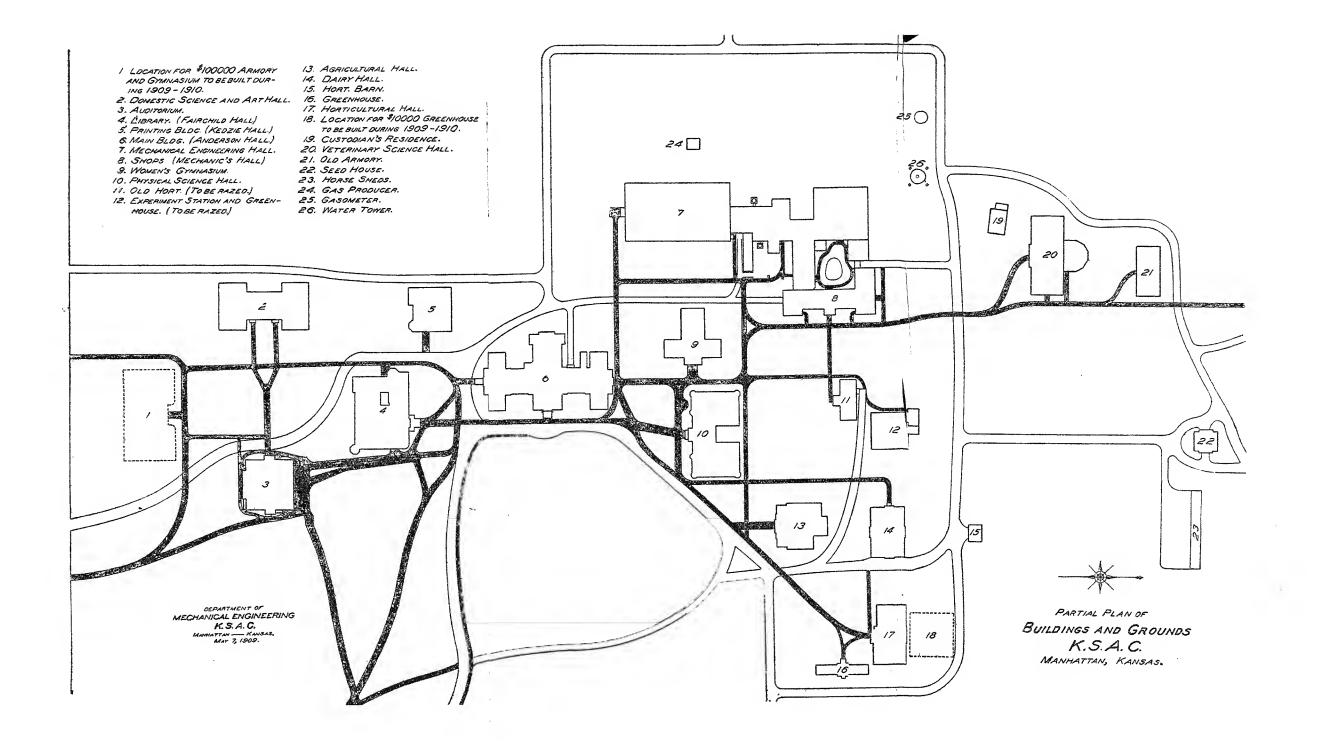
Librarian:

C. Baxter.



COLLEGE BAND AND BATTALION.





HISTORY AND RESOURCES.

THE income of the College is derived from two sources—national and state. The original land-grant act was signed by President Lincoln July 2, 1862. This act appropriated 30,-000 acres of land for each senator and representative in Congress. Under the provisions of this act this state was to receive 90.000 acres. The amount actually received was 82.315.52 acres. The balance of this land was appropriated by Congress in 1908. This land was to be sold and the proceeds to be a permanent endowment, to be invested in bonds bearing not less than five per cent. interest. The amount of this endowment is \$492,381, "the interest of which shall be inviolably appropriated by each state which may take and claim the benefit of this act to the endowment, support and maintenance of at least one college where the leading object shall be, without excluding other scientific and classical studies, and including military tactics, to teach such branches of learning as are related to agriculture and the mechanic arts, in such manner as the legislatures of the states may respectively prescribe, in order to promote the liberal and practical education of the industrial classes in the several pursuits and professions in life."

The income derived from this endowment since 1880 is given in the column headed "Interest Fund," page 19.

Under this act, the state of Kansas, in 1863, established the State Agricultural College by endowing Bluemont College, which had been erected two miles from Manhattan under the auspices of the Methodist Episcopal church, but was presented to the state for the purpose named in the act of Congress.

In 1873 the College was reorganized upon a thoroughly industrial basis, with prominence given to agriculture and sciences related thereto; and in 1875 the furniture and apparatus of the College were moved to the farm of 223 acres, one mile from the city of Manhattan.

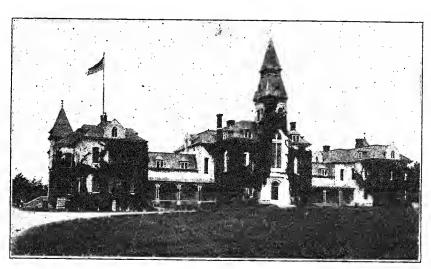
In March, 1887, Congress passed the "Hatch bill," which provided for the organization in each state of a station for agricultural experiments, and gave to each an annual appropriation of \$15,000 for this purpose. See "Experiment Station," page 29.

On August 30, 1890, another act was passed by Congress,

known as the "Morrill bill." It provided for an annual appropriation, beginning with \$15,000 for year ending June 30, 1890, with an annual increase for ten years of \$1000 over the preceding year, the annual amount thereafter to each state to be \$25,000. This money is "to be applied only to instruction in agriculture, the mechanic arts, the English language, and the various branches of mathematical, physical, natural and economic sciences, with especial reference to their applications in the industries of life, and to the facilities for such instructions."

The Adams act, of 1906, gives the experiment stations \$5000 for that year, this amount to be increased \$2000 per year till it becomes \$15,000.

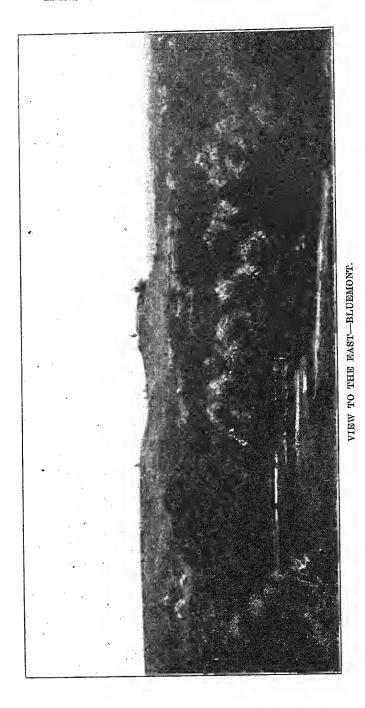
An act of 1907 adds \$5000 to the support of the agricultural colleges for the fiscal year ending June 30, 1908, this to be increased \$5000 each year till the total is \$25,000.



Anderson Hall.

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TABULATED FINANCIAL EXHIBIT.

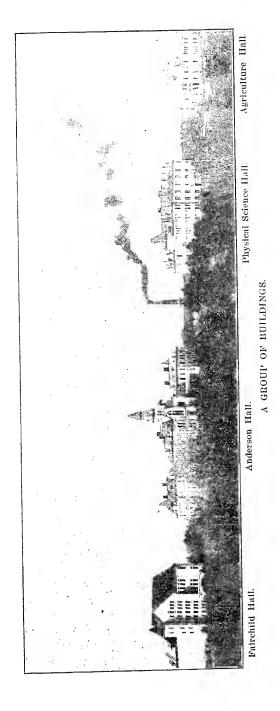


GROUNDS AND BUILDINGS.

THE College grounds and buildings, occupying an elevation at the western limits of the city of Manhattan, and facing toward the city, are beautiful in location. The grounds include an irregular plat in the midst of a fine farm, with orchard, vineyard and sample gardens attached, the whole being surrounded by durable stone walls. The grounds are tastefully laid out and extensively planted according to the design of a professional landscape-gardener, while well-graveled drives and good walks lead to the various buildings. All these are of the famed Manhattan limestone, of simple but neat styles of architecture, and admirably suited to their use. All recitationrooms are excellently lighted and ventilated, and are heated by steam or hot water. A complete system of sewerage has been provided. The College owns 750 acres of land, the greater portion of which is devoted to experiments. Value of land is \$169,600.

ANDERSON (MAIN) HALL is 152 x 250 feet in extreme dimensions, arranged in three distinct structures, with connecting corridors. This building contains, in its two stories and basement, offices of the President and Secretary, cloak-room, studies, chapel, post-office, and offices and classrooms of the departments of architecture and drawing, mathematics, oratory, English, and preparatory. Cost, \$79,000. The value of the equipment and apparatus in this building is as follows: Executive, \$9104; architecture and drawing, \$2686; mathematics, \$1759; economics, \$138; English, \$244; preparatory, \$64.

MECHANICS HALL contains the following rooms, forming a connected structure: Wood shop, two stories, 40×103 feet. The upper floor contains office and drafting-room for the department of mechanical engineering. The lower floor contains benches for 220 students, and complete set of wood-working machinery and tools. Machine-shop, 40×80 feet; blacksmith shop, 40×50 feet; iron foundry, 40×50 feet; brass foundry, 16×30 feet; pipe-fitting room, 19×50 feet; engineering laboratory, 35×40 feet; power-room, 35×40 feet; boiler-room, 40×75 feet. Cost of buildings, \$33,125. Value of equipment: Mechanical engineering, \$40,937; heat and power, \$49,693.



GYMNASIUM, one story, 35 x 110 and 46 x 75 feet of floor space, is in form of a cross. It contains a drill-room 46 x 75 feet, a large classroom, cloak-room, dressing-room, toiletroom, ten bath-rooms, and two offices. Cost, \$10,000. Value of equipment, \$753.

ARMORY, 46 x 95 feet, is a two-story building. This building, which has served many purposes, is now fitted below for an armory and drill-room, and offices of military department. The upper floor will be used for band practice and preparatory classes. Cost of building, \$11,250. Value of equipment and apparatus: Military, \$112.

FAIRCHILD (LIBRARY) HALL is 100 x 140 feet, three and four stories high. This building provides permanent quarters for the library, with ample reading-rooms and offices, class-rooms and laboratories for the departments of entomology and zoölogy, a classroom and office for the department of history and civics and philosophy, general museum, and rooms for the various literary societies. Cost of building, \$67,750. Value of equipment and apparatus: History and civics, \$182; entomology and zoölogy, \$11,736; philosophy, \$267.

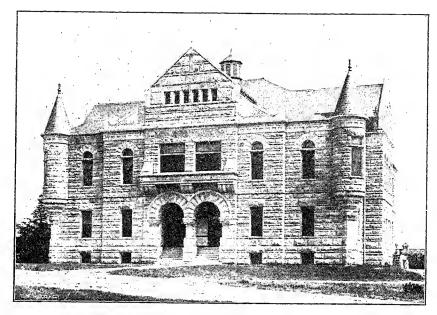
KEDZIE HALL is 84×70 feet, two stories and basement. The first floor and basement will be used by the printing department; the second floor by the drawing department. Cost of building, \$15,000. Value of apparatus: Printing, \$6457.

AGRICULTURAL HALL, 90 x 95 feet, with its two stories and basement, contains offices, classrooms and laboratories for the departments of agriculture and animal husbandry. Cost of building, \$25,000. Value of equipment: Agronomy, \$18,272; animal husbandry, \$26,396.

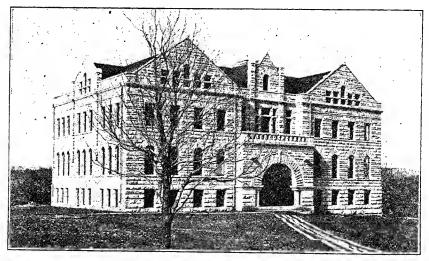
PHYSICAL SCIENCE HALL is 96 x 166 feet, and its two stories and basement contain offices, classrooms and laboratories for the departments of chemistry, and physics and electrical engineering. It is heated by both direct and indirect radiation, thus insuring perfect ventilation. Cost of building, \$70,000. Value of equipment: Chemistry, \$19,975; physics and electrical engineering, \$23,284.

AUDITORIUM is 113 x 125 feet, and has a seating capacity of 3000. It contains offices and music-rooms for the music department. Cost of building, \$40,000. Value of equipment, \$4773.

DOMESTIC SCIENCE AND ART HALL is 92 x 176 feet, having two stories and basement. The basement and first floor contain classrooms, laboratories and offices for the domestic science department; the second contains sewing-rooms and offices for



Agriculture Hall.



Horticultural Hall.

the domestic art department. Cost of building, \$70,000. Value of apparatus and equipment: Domestic science, \$3072; domestic art, \$463.

VETERINARY HALL is 113 x 155 feet, having two stories and basement. It contains demonstration-rooms, classrooms, laboratories, and offices for the departments of veterinary science and bacteriology. Cost of building, \$56,000. Value of apparatus and equipment: Veterinary science, \$8937; bacteriology, \$1055.

DAIRY HALL is 72 x 103 feet, one story and basement. It contains office, classroom, butter-manufacturing room, cheese and cheese-curing rooms, hand-separator room, laboratory, and refrigerator. Cost of building, \$15,000. Value of equipment, \$10,816.

HORTICULTURAL HALL is 72 x 116 feet, having basement, two stories, and attic. The basement and first floor contain classrooms, laboratories and offices for the horticultural department; the second floor contains similar rooms to be used by the botanical department. The attic will provide rooms for horticultural and botanical museums. Cost, \$50,000. Value of equipment and apparatus: Horticulture, \$21,916; botany, \$18,583.

HORTICULTURAL LABORATORY contains offices, workroom, five propagating houses, and insectary. Cost, \$5000.

THE GRANARY is 40 x 50 feet, having basement, two stories, and attic. It contains a thrashing-floor, drying-room, office, and bins for the many varieties of corn, wheat, oats, barley, etc. Cost of building, \$5000.

THE FARM BARN is a double but connected stone structure, 50×75 feet and 48×96 feet, with an addition of sheds and experiment pens 40×50 feet. The south wing, 48×96 feet, is the stock-judging room, having a seating capacity of 350. A basement underlies the entire structure. Cost, \$10.831.

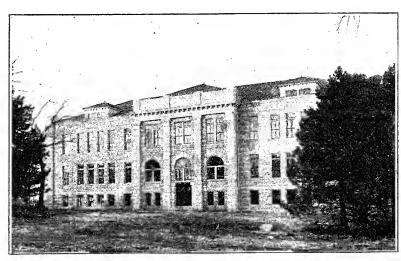
THE DAIRY BARN, 40 x 175 feet, is fitted up with modern swinging stalls for eighty head of cows, arranged in two rows, with driveway between. Cost of building and equipment, \$4000.

THE HORTICULTURAL BARN is a stone building, containing storeroom, granary, and stables for several horses. Cost, \$1000.

THE COLLEGE LIBRARY is one of the most important supplements to classroom instruction. It consists of 35,064 bound volumes and about 18,000 pamphlets. These books are mainly kept in a general library, but many volumes of technical char-

acter are withdrawn and held in departmental libraries. All of the books are indexed in card catalogues, which show their author, title, and to a large degree the details of their contents; also their location. Students are allowed free access to the shelves, a privilege and a source of culture that are given in perhaps no other library of its size in the country, Students may draw books for home use under simple and liberal regulations. The library is open daily, except on legal holidays, from seven A. M. to six P. M., and the librarian or an assistant is in constant attendance during this period to assist those who use the books. By all these means the library is used to the fullest extent and is of inestimable value.

The College subscribes for the leading literary, scientific and agricultural journals, while the principal daily and weekly papers of Kansas, and many from other states, are received in exchange for the College publications. All these are kept on file for the use of students and Faculty. The College has been designated as the depository of United States public documents for the fifth congressional district of Kansas, and 3580 volumes have already been received on this account. Value of books and equipment, \$77,237.



Veterinary Hall.

OBJECTS.

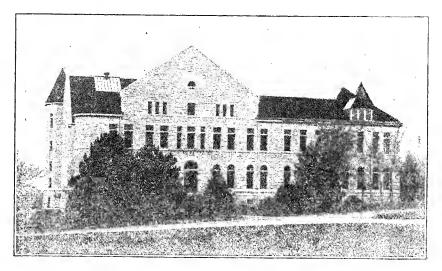
This College now accomplishes the objects of its endowment in several ways:

First. It gives a substantial education to men and women. Such general information and discipline of mind and character as help to make intelligent and useful citizens are offered in all its departments, while the students are kept in sympathy with the callings of the people.

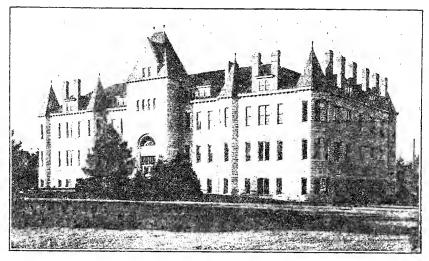
Second. It teaches the sciences applied to the various industries of farm, shop, and home. Chemistry, physics, bacteriology, botany, entomology, zoölogy and mechanics are made prominent means of education to quick observation and accurate judgment. Careful study of the minerals, plants and animals themselves illustrates and fixes the daily lessons. At the same time lessons in agriculture, horticulture, engineering and household economy show the application of science; and all are enforced by actual experiment.

Third. It trains in the elements of the arts themselves, and imparts such skill as to make the hands ready instruments of thoughtful brains. The drill of the shops, gardens, farm and household departments is made a part of the general education for usefulness, and insures a means of living to all who make good use of it. At the same time it preserves habits of industry and manual exertion, and cultivates a taste for rural and domestic pursuits.

Fourth. It desires also to carry instruction in agriculture and domestic affairs to the thousands of Kansas people who cannot come to its halls. For this purpose farmers' institutes have been organized in all the counties of Kansas except one—a total of 244 county and local organizations. One or two speakers from the College attend the annual meetings, sharing with the people in lectures, essays and discussions upon topics of interest to farmers and their families. The College has created the department of Farmers' Institutes and Agricultural College Extension, with a superintendent who dates all meetings and arranges for programs and speakers. This department also directs a vast amount of extension work with boys and girls; it conducts seed, dairy, corn and poultry trains; it publishes two series of pamphlets, one for rural teachers and one for members of farmers' institutes. After July, 1909, the



Fairchild Hall (library).



Physical Science Hall.

department will have a staff of several assistants who will devote their whole time to institute and extension work, and in addition many members of the College teaching force and the Experiment Station staff will also give two or three weeks each year to the public teaching. Agricultural Education, published by the College, is edited by the superintendent of this department, and certain numbers will be mailed free to teachers and certain other numbers will be mailed free to members of farmers' institutes.

The *Industrialist*, published by the College, edited by the Faculty, and furnished to each student, gives a wide circulation to matters of interest in the College.

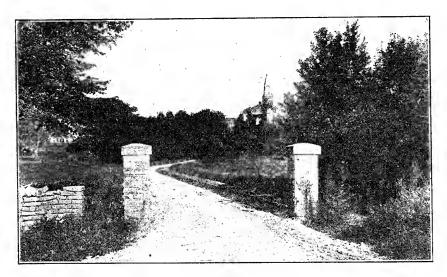
THE EXPERIMENT STATION.

The Agricultural Experiment Station of the College is organized and maintained under the provisions of what is known as the "Hatch act." It is officially designated as "An act to establish agricultural experiment stations in connection with the colleges established in the several states under the provisions of an act approved July 2, 1862, and the acts supplementary thereto." This was enacted "in order to aid in acquiring and diffusing among the people of the United States useful and practical information on subjects connected with agriculture, and to promote scientific investigation and experiment respecting the principles and practice of agricultural science." The law specifies in detail "that it shall be the object and duty of said experiment stations to conduct original researches or verify experiments on the physiology of plants and animals; the diseases to which they are severally subject, with remedies for the same; the chemical composition of useful plants at their different stages of growth; the comparative advantages of rotative cropping as pursued under a varying series of crops; the capacity of new plants or trees for acclimation; the analysis of soils and waters; the chemical composition of manures, natural or artificial, with experiments designed to test their comparative effects on crops of different kinds; the adaptation and value of grasses for forage plants; the composition and digestibility of the different kinds of food for domestic animals; the scientific and economic questions involved in the production of butter and cheese; and such other researches or experiments bearing directly on the agricultural industry of the United States as may in each case be deemed advisable."

The Experiment Station, so established, is an important feature of the College. The experimenting staff consists of the director and the professors of agriculture, botany, chem-



A farmers' institute train.

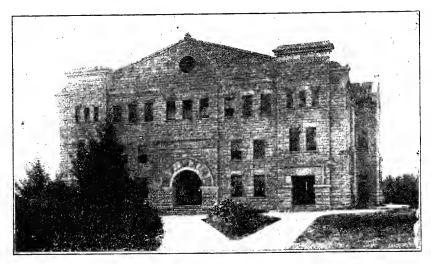


Main entrance.

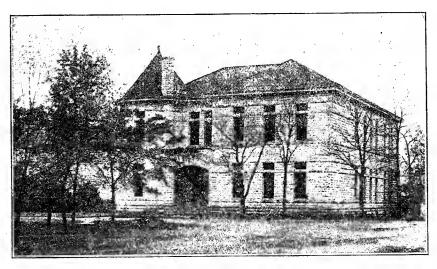
istry, dairy husbandry, animal husbandry, horticulture, entomology, and veterinary science. The heads of certain important departments of instruction in the College are thus also in charge of the several departments of investigation of the Station, and to a certain extent assistants serve in both capacities. The Experiment Station, therefore, is not definitely localized at the institution, but its work and property are more or less woven in with that of the College. The expenses of the Experiment Station work are separately accounted for, however, and its property is listed in separate inventories. While this arrangement involves some difficulties, it also possesses many advantages—advantages which are mutual. The College work profits by having the investigations of the Station going on alongside. The Station profits in that it thus obtains, without charge, the use of the College farm, buildings, heat, light, various collections, museums, and in some cases apparatus. The expenses of the Experiment Station are met by an appropriation by Congress of \$15,000 per annum, which sum has been increased by the Adams act, of 1906. That year \$5000 was paid. This amount is increased \$2000 per year till the total becomes \$15,000. The aims of the Station may be said to be twofold-those which lead to immediate results, and those the objects of which can be reached only after a series of years. Experiments of the greatest value are often of the latter kind, but if the work of the Station were limited to such, the public would feel that nothing is being accomplished. It is the intention of the Station force to make all of its experiments practical, in the sense that they lead to results which, indirectly if not directly, benefit the agricultural interests of the country.

The Hatch act provides that "bulletins of reports of progress shall be published at least once in three months, one copy of which shall be sent to each newspaper in the state or territory in which they are respectively located, and to such individuals actually engaged in farming as may request the same, and as far as the means of the Station will permit." The publications of the Station include annual reports, bulletins, and press bulletins.

Since 1889 the annual reports contain no details of experiments, but simply outlines of the work of the year in general in the several departments, and including the financial statements required by law. These annual reports, not being of general interest, therefore, are printed in but small numbers, and sent to libraries and officials only, except on special request.



Auditorium.



Kedzie Hall (printing department).

The bulletins are the means of communicating the results of the Station work directly to the farmers. They are issued in the quantities judged necessary to meet the demand. All investigations are described in them when completed, and they are sent to all on our mailing-lists. During the history of the Station the number issued has averaged about eight per annum.

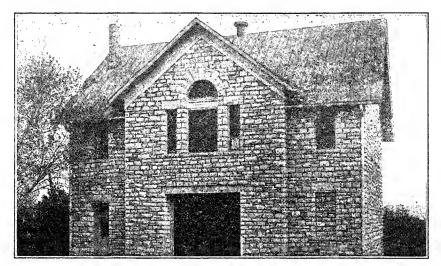
The press bulletins are issued in limited numbers and sent to the papers, to certain state and county officers, and to a considerable number of public and semipublic institutions. They are short, readable, and popular, but at the same time accurate, articles on subjects of current interest, and embodying observations and experiments of members of the Station staff. Extra copies of some of them are printed for use in answering inquiries.

Persons desiring to receive the Station bulletins are requested to address Agricultural Experiment Station, Manhattan, Kan. General correspondence in reference to the Station should be sent in the same way, but inquiries concerning any special line of investigation should be sent to the head of the department in charge of such work.

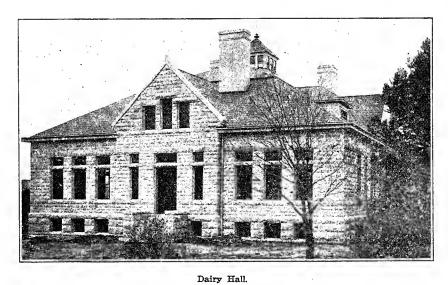
FORT HAYS BRANCH STATION.—Congress, in an act approved March 27, 1900, ceded the Fort Hays military reservation, containing 7597.93 acres, to the state of Kansas, on the condition that the state would establish and maintain there branches of the State Normal School and of the Experiment Station. The state legislature accepted the reservation in an act approved February 7, 1901, and designated a division of the land between the Normal School and the Agricultural College, by which the latter obtained about 3500 acres, including the parts most desirable for agricultural purposes. Situated west of the ninety-ninth meridian, the Station will occupy a field entirely different climatically from that of any other station in the country, and the results obtained there ought to benefit a large region extending even beyond the boundaries of the state. Experiments are being tried on a large scale in making tests of varieties and methods of culture, with special reference to the needs of regions with deficient rainfall. Experiments are also made to determine the feeding value of the drought-resisting crops produced. This Branch Station is supported by state appropriations. The funds appropriated by Congress cannot be used for the support of substations.

. INDUSTRIAL TRAINING.

This institution is preeminently industrial in its aims, methods, and tendencies. While the pure sciences, mathematics and



Seed house.



other studies are rigorously taught, there is constantly present a practical atmosphere which incites the student to an application of the principles taught, and thus lends interest and value to the work. In nearly every term of the four-year course the student gives one hour per day to industrial training of one kind or another. This awakens and deepens sympathy with industry and toil, impresses the student with the essential dignity of labor, thus educating toward the industries instead of away from them, and lays a good foundation for a life-work in industrial and technical lines. Even should students not all return to the farm, the shop, or to housewifery, the wider knowledge afforded them and the broader sympathies engendered cannot but redound to their good, and to the advantage of society at large and the industrial classes in particular.

Throughout the first year young men take their industrial in the shops. They thus get a familiarity with tools and methods which enables them to do the wood- and ironwork commonly needed on the farm, and which is useful to all everywhere. The young women take sewing during the first year, and a certain amount of cooking practice. The utility of this needs no argument. After the first year there are differences in the industrial requirements corresponding to differences in the several courses of study. In the domestic science course the various lines of household art constitute almost the entire industrial work. In the mechanical engineering course shop work in one or another of its various kinds is required every term. In the agricultural course the industrials include practical instruction in the fields, orchards, gardens, and dairy, and in feeding.

The labor of students during assigned industrial time is not paid for, as its object is educational, and the student receives full value in the training afforded. In all the instruction in industrial lines special attention is given to making the courses systematic and progressive. Students desiring to give extra attention to such work are allowed every opportunity that the departments can afford. Many students acquire sufficient proficiency to be able to turn their skill to a financial advantage during the latter term of their courses, and all who apply themselves with any diligence obtain a training that cannot fail to be of great benefit to them in after-life. The work of the several industrials will be found described in detail under the individual headings.

DEGREES.

Graduates from any of the four-year courses will be granted the degree of bachelor of science. Students completing the graduate year will be granted a special bachelors' degree indicating the course completed, except in the veterinary course, where the degree will be doctor of veterinary medicine.

The degree of master of science will be conferred in course upon graduates of the College who have received eighteen credits in an approved graduate course, each credit being equivalent to a full study pursued for three months.

Courses will be approved which are in line with any one of the regular undergraduate courses, and include at least six credits in the biological or the physical sciences, or mathematics, and at least six credits in technical or industrial branches.

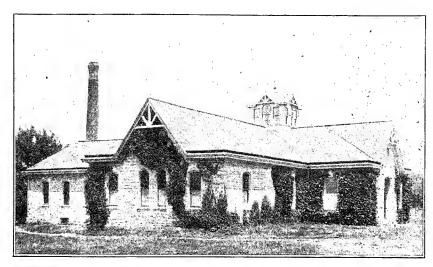
The principal line of study shall be designated as the major, and another line as the minor study. As nearly as may be, one-third of the time is to be given to the minor and two-thirds to the major study, including in the latter such scientific, mathematical or technical branches as contribute directly to it. The minor study must fill a logical place in the scheme, so that the work as a whole may possess unity. Three minor credits may be a modern language.

Applications for graduate study shall be passed upon by the committee on graduate courses and referred by them to the Faculty for action. If approved by the Faculty, the candidate shall obtain an assignment at the beginning of each term for the studies intended to be pursued during the ensuing term. At the close of each term examinations shall be given in all branches, and the candidate shall be reported as "passed" or "not passed."

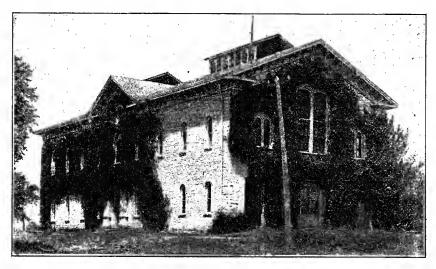
Applications for entrance upon graduate study and for changes in major or minor subjects must be presented to the committee on graduate courses within the first week of a College term.

Non-resident candidates will be required to send to the professors in charge of the departments of their major and minor subjects a full and complete report at the middle and end of each term of the work accomplished within that period. Failure to comply with this requirement will cause the candidate to be dropped from the roll of graduate students, to be reinstated only upon approval of the Faculty. At the end of each term the date, place and manner of the examination of non-residents shall be determined by the instructors concerned.

Upon the completion of the required work, and by the 15th day of May of the year in which the degree is desired, each



Women's gymnasium.



Armory.

candidate shall present to the committee on graduate courses, typewritten and in duplicate, a satisfactory thesis involving original work along the lines of his major subject. Thereupon a special examining committee of three shall be appointed from the Faculty, of whom one member shall represent the major subject and another the minor, who shall examine the candidate orally on the subject-matter of his thesis and report the result of such examination to the Faculty. Upon receipt of the report of this committee the Faculty will take action concerning the recommendation of the candidate for the degree.

The subject of the thesis must be presented to the committee on graduate courses for approval by the 1st day of January preceding the commencement at which the degree is desired.

Outlines of direction for study and research in various arts and sciences, with special adaptation to the wants and opportunities of individual applicants, will be furnished, at request, to all graduates; and professors in charge will gladly aid by correspondence in any researches undertaken.

The degree of master of science may be conferred upon the graduates of other colleges of like grade with our own, provided the applicant shall first satisfy the Faculty of his proficiency in the industrial studies distinctive of this institution, on the following conditions:

- 1. The applicant for the master's degree must be a graduate of at least three years' standing, and a resident of Kansas.
- 2. His graduate study shall have been in line with that required of graduates of this College, as published in our catalogue.
- 3. He must make application for the degree on or before the 1st day of January preceding the granting of the same. The application must be accompanied with a statement of his course of study, the work upon which the claim for the degree is based, and the subject selected for his thesis.
- 4. By April 1, an abstract of the thesis must be submitted to the Faculty.
- 5. Before May 15, the applicant shall present himself for examination. The examination shall be thorough and extensive, and shall be conducted by a special committee of the Faculty.

COURSES OF STUDY.

With a view of providing for the wants of the various classes of students, the following courses of study are offered:

1. Four-year courses in (a) agronomy, (b) animal husbandry, (c) dairy, (d) poultry, (e) horticulture, (f) veteri-

nary science, (g) mechanical engineering, (h) electrical engineering, (i) civil engineering, (j) architecture, (k) printing, (l) domestic science and art, (m) general science.

2. Short courses in (a) dairying, (b) domestic science, (c) agriculture.

In all of the four-year courses the work is the same for the freshman year, with such exceptions as are determined by difference of sex. The following table shows this work. It also shows a subfreshman year, which is given to students who come to the College without credit in its studies or their equivalent. Later pages show the work of the several courses for years subsequent to the freshman.

ALL COURSES.

Inita column shows page in this catalogu	te where run description may be round.
SUBFRESHMAN.	FRESHMAN.
FALL TERM: Advanced Grammar 5 — 130 Algebra I 5 — 130 Ancient History 5 — 131 Bookkeeping 5 — 130 WINTER TERM: Readings 5 — 130 Algebra II 5 — 130 Medieval History 5 — 132 SPRING TERM: Composition 5 — 131 Algebra III 5 — 130 Modern History 5 — 131 Botany II 5 2 132	FALL TERM: Classics 5 — 97 Geometry I 5 — 113 Physics I 5 2 127 El. Psychology 1 — 125 Freehand Drawing 4 76 Woodwork I or 4 114 Sewing I 4 42 Phys. Tr 4 121 Phys. Tr 4 126 WINTER TERM: 5 — 113 Advanced Composition, 5 — 97 97 Geometry II 5 — 113 Physics II 5 4 127 Object Drawing 4 76 Woodwork II or 4 114 Sewing II 4 12 Phys. Tr 4 121 Phys. Tr 4 126 SPRING TERM: Rhetoric I 5 — 97
	Rhetoric I 5 97 Trigonometry 5 113 Surveying or 4 48 Color and Design I 4 77 Agriculture or 5 67 Cooking 5 92 Geometrical Drawing 4 76 Blacksmithing I or 4 414 Sewing III 4 91 Drill or 4 412 Phys. Tr 4 126

The Agronomy Course.

This is an age of specialists, yet the specialist is far better equipped for his life-work if he is well grounded in the fundamental branches of knowledge. The College is better equipped than ever before, in the special lines of agriculture, horticulture, and animal husbandry and dairying, for giving the student thorough preparation and training in these lines. The sciences which are related to agriculture are not slighted, and

all of the essential fundamental studies are given.

The young men who take the agronomy course will not only be well prepared successfully to carry on various lines of farming for themselves, but they will be competent to act as foremen, and, after some experience, as managers and superintendents of large farms or other agricultural interests. They will also be prepared to take positions in our agricultural colleges and experiment stations as instructors and assistants. More than this, the graduate from the agriculture course, whatever calling he may choose or wherever he may make his home, will be a strong and influential citizen as well as a skilful producer, because, while the studies of the agriculture course are primarily practical, emphasizing the business side of life, yet enough "culture" studies are offered to give the student a well-balanced and well-rounded education.

It is not so easy to make a good living at farming to-day as it was forty or even twenty years ago. The soil is poorer, competition is greater. There are many educated, hustling men engaged in the various lines of farming to-day, and if you want successfully to compete with them you must be educated too. You must understand the soil and the great principles of cultivation, aeration, and soil-moisture conservation. You must know the science of plant growth and propagation; you must know the chemistry of the plant and of the soil. You must learn the principles of animal nutrition and balanced rations in stock-feeding. You must study the animal and be practiced in stock judging, in order to select your breeding stock. You must know a thousand things about agriculture which you may not know now, if you hope successfully to compete with

those who have knowledge and training in these things.

The motto of the Agricultural College is practice with science. This does not mean, however, that the agriculture course student is put to work on the farm. The agriculture course is a course of study, not manual labor. Some manual labor is required as practice work in the field and laboratory. The student is taught to handle tools in carpentry and blacksmithing; he is given some practice in handling live stock, grafting, tree-planting, and general farm management. He is not sent into the fields to plow, harrow, or cultivate, but he has an opportunity to observe the best methods of farm practice and become acquainted with the great principles of agriculture which apply everywhere and upon which crop production and stock-breeding and stock-raising depend.

Every young farmer in the state of Kansas should take one of the agriculture courses. It does not matter so much how long a man lives as how much he lives, and one can live so much more and accomplish so much more after spending four years in college that the time spent is never missed. Every young man can find means to carry him through

college. "Where there's a will there's a way."

AGRONOMY COURSE.

Third column shows page in this catalogue	s where full description may be found.
SOPHOMORE.	SENIOR.
FALL TERM:	FALL TERM:
Chemistry I 5 4 83 Zoölogy I 5 4 102 Dairying 5 4 88 Drill - 4 121 WINTER TERM:	American History 5 — 106 Farm Motors 2½ 4 110 Soil Physics II 2½ 6 69 Physiology 5 2 138 Thesis — 3 —
Chemistry I and II	WINTER TERM: Economics 5 - 95 Philosophy 5 - 125 Farm Management 2½ 2 71 Crop Production II 2½ 6 71 Thesis - 5
Chemistry II and III. 5 4 84 Live Stock I. 2½ 4 74 Farm Equipment 5 — 68 Public Speaking I. 5 — 136 Drill — 4 121 JUNIOR.	SPRING TERM: Diseases Fm. Animals, 5 -
FALL TERM: Bacteriology I 2½ 4 '79 Plant Anatomy 5 4 80 Agricultural Chem. I 2½ 6 84 Geology 5 — 103 WINTER TERM:	GRADUATE. FALL TERM: Modern Language I 5 — 105' Elective in Agronomy, 5 — 72 Elective
Animal Nutrition 2½ 85 Plant Physiology 5 4 81 Rhetoric II 5 98 Soil Physics I 2½ 4 68 Agr. Chem. Lab. II 4 84	WINTER TERM: Modern Language II. 5 — 105 Elective in Agronomy, 5 — 72 Elective
SPRING TERM: 5 — 106 Civics 5 — 106 Crop Production I 5 6 70 Stock Feeding 5 — 75 Poultry 2½ 2 129	SPRING TERM: Modern Language III, 5 — 105 Elective in Agronomy, 5 — 72 Elective 5 — Agricultural Chem. II, 5 4 84

Animal Husbandry Course.

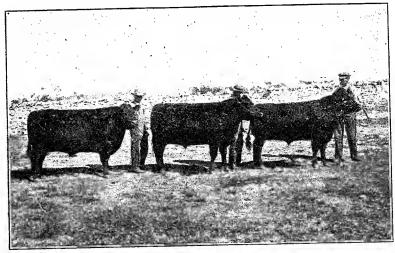
Realizing that success in general agriculture depends very largely on the selection of a profitable type of farm animals, this course has been so arranged as to give the student special instructions in the selection, so arranged as to give the student special instructions in the selection, breeding, feeding, marketing and management of all classes of live stock. Attention is also given to sanitary conditions in connection with live stock and treatment of all the more common forms of diseases to which farm animals are subject. The work as outlined in this course is designed to teach the science that underlies practical agriculture. Sufficient English, literature, mathematics, history and other supplementary studies are maintained to give both a scientific and practical training, and to develop a student in this course to the level of any other profession. Many positions are open to young men with thorough training along this line of work, such as teachers, managers of live-stock farms and ranches, field men for agricultural publications, commission-house buyers and sellers, government work, and many others. It is the intention to make broad-minded, influential citizens of the students of this department as well as the most successful live-stock men of the country. partment as well as the most successful live-stock men of the country.

In the fall term of the fifth year an opportunity is given the student to do original experimental work. He may largely choose this work along any particular line in which he may be interested, the object being to acquaint him with the details of scientific experimental work.

Most analysis during the winter term of the fifth year is a study.

Meat production during the winter term of the fifth year is a study of the most economical and practical methods of producing beef, mutton and pork, together with the study of the most scientific methods of killing and curing and storing meats, both on the farm and in the large packinghouses.

A five-hour period during the spring term of the fifth year is open as an elective. Here the student may select work along some special line of live stock in which he may be interested.



Prize Angus herd.

ANIMAL HUSBANDRY COURSE.

SOPHOMORE.	SENIOR.
FALL TERM:	FALL TERM:
Chemistry I 5 4 83 Zoölogy I 5 4 102 Dairying 5 4 88 Drill - 4 121	Physiology 5 2 138 Economics 5 — 95 American History 5 — 106 Live Stock II 2½ 4 75 Thesis — 4 —
WINTER TERM:	WINTER TERM:
Chemistry I and II. 5 4 83 Entomology I 5 4 103 Horticulture 5 4 107 Drill — 4 121 SPRING TERM:	Embryology 5 4 103 Philosophy 5 — 125 Farm Management 2½ 2 71 Pedigrees 4 75 Live Stock Managm't 2½ — 75
Chemistry II and III 5 4 84	Thesis 4 —
Live Stock I	SPRING TERM: Animal Breeding 5 — 75 Diseases Fm. Animals, 5 — — English Literature 5 — 98 Obstetrics 5 — 143 Thesis 4 —
FALL TERM:	GRADUATE.
Bacteriology I	FALL TERM: Modern Language I 5 — 105 Public Speaking II 5 — 136 Principles of Animal Nutrition 5 — 85 Experimental Work 2½ 4
Animal Nutrition 2½ — 85 Rhetoric II 5 — 98 Bacteriology II 2½ 4 79 Soil Physics I 2½ 4 68 Zoölogy II 2½ 4 102	WINTER TERM: Modern Larguage II 5 — 105 Origin Dom. Animals 5 — — Rural Architecture 5 4 — Crop Production II 2½ 6 71
SPRING TERM:	SPRING TERM:
Stock Feeding 5 - 75 Crop Production I 5 4 70 Civics 5 - 106 Poultry 2½ 2 129	Modern Language III. 5 — 105 Soil Fertility 2½ 4 69 Meat Production 5 — — Elective 5 — —

Dairy Husbandry

The demand for well-trained men in the different branches of the dairy industry having become so urgent, the wonderful possibilities offered by the state of Kansas for successful dairying, and the extent, value, and rapid development of this industry, has led the Board of Regents to offer courses in dairy husbandry. This is one of the first institutions in the country to offer a separate course and give a degree in this important branch of agriculture. Dairying, in spite of its general neglect, is recognized as being one of the most economical and greatest wealth-producing industries in the country; and each succeeding year only serves to emphasize its importance and to show new possibilities in the dairy business. This tends to create new positions and increases the demand for men who will be leaders in this work.

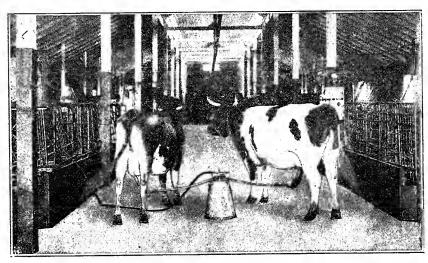
Much of the future prosperity and success of dairying must rest in the hands of the producer, and to him we must look for our greatest progress. The first object of this course is, therefore, to offer, in addition to a well-grounded liberal agricultural course, such instruction as will be of service and special value to the man who handles the cows. No pains will be spared to make this course as broad, thorough, comprehensive, and prac-

tical as it can be made.

To those who care to take the advanced work during the fifth year an opportunity will be given to take such a course as should fit them to take

up municipal, state, government, college and research work.

The universal agitation for a pure, wholesome, healthy milk supply for towns and cities, the demand for organizers and managers of testing associations, instructors in traveling dairy schools and institutes, creamery inspectors and instructors, creamery managers, managers of various types of dairy farms, and dairy instructors and investigators in college, state and government employment, call for the services of a great many more men than have received the training and experience which these positions demand. It is the object of these courses to supply the student with this needed information and training, together with a sufficient number of culture and scientific studies to assist him in making the most out of his life and to become a better and more useful citizen of the state.



Milking by machine.

DAIRY HUSBANDRY COURSE.

SOPHOMORE.	SENIOR.
FALL TERM: 5 4 83 Chemistry I 5 4 102 Zoölogy I 5 4 102 Dairying 5 4 88 Drill — 4 121	FALL TERM: Physiology 5 2 138 Economics 5 — 95 Live Stock II 2½ 4 75 Butter Making 5 4 88 Thesis — 2 —
WINTER TERM: Chemistry I and II. 5 4 83 Entomology I 5 4 103 Horticulture 5 4 103 Drill	WINTER TERM: Philosophy 5 - 125 Embryology 5 4 103 Pedigrees - 4 75 Cheese Making 2½ 4 88 Farm Management 2½ 2 71 Thesis - 1 - SPRING TERM: English Literature 5 - 98
JUNIOR.	Animal Breeding 5 75 Diseases Fm. Animals 5 — Market Milk and Cr'm 2½ 4 Dairy Management 4 88 Thesis 3 89
FALL TERM: Bacteriology I	GRADUATE. FALL TERM: Experim'tal Dairying, 5 4 89 Rural Architecture 2½ 4 — Dairy Chemistry 2½ 4 85 Elective 5 — — WINTER TERM:
Bacteriology III	Manufacture of Special Dairy Products 2½ 4 89 Crop Production II 2½ 6 71 Public Speaking II 5 — 136 Elective 5 — — Spring Term:
Poultry 2½ 2 129	Dairy Inspection 2½ 4 89 Soil Fertility 2½ 4 69 Landscape Gardening 2½ 4 108 Dairy Seminary 2½ 4 89 Elective 5 —

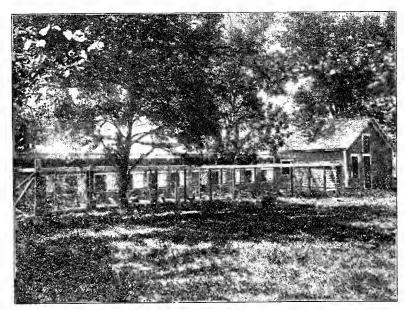
Poultry Husbandry.

In compliance with the general and growing demand for instruction along the line of poultry husbandry, a new course has been outlined to meet the needs of the farmer, poultry specialist and poultry fancier.

This course permits the student to take special work in poultry husbandry during the third and fourth years of his College course, with the privilege of taking advanced studies and research work during a fifth or graduate year.

The poultry department is equipped with different types of incubators, brooders, poultry-houses, runs, and with flocks of the leading breeds of fowls.

This course starts with the elementary and basic studies underlying poultry culture and treats the subject in a practical, comprehensive manner, combining with lectures and classroom work laboratory practice in the details of practical, successful poultry management.



Poultry-house and yard.

POULTRY HUSBANDRY COURSE.

SOPHOMORE.	SENIOR.
FALL TERM: 5 4 83 Chemistry I 5 4 102 Zoölogy I 5 4 102 Dairying 5 4 88 Drill - 4 -	FALL TERM: English Literature 5 — 98 Economics 5 — 95 Live Stock II 2½ 4 75 Poultry Husbandry I 5 4 129
WINTER TERM: Chemistry I and II. 5 4 83 Entomology I 5 4 103 Horticulture 5 4 107 Drill	WINTER TERM: Philosophy 5 — 125 Embryology 5 4 103 Poultry Husbandry II, 5 4 129 Farm Management 2½ 2 71
SPRING TERM: Chemistry II and III 5 4 84 Live Stock I 2½ 4 74 Farm Equipment 5 - 68 Public Speaking I 5 - 136 Drill - 4 -	SPRING TERM: Diseases Fm. Animals, 5 — — Animal Breeding 5 — 75 Poultry Husbandry III, 5 4 130 Thesis 10 — GRADUATE.
JUNIOR. FALL TERM:	To be supplied later.
Bacteriology I 2½ 4 79 Agricultural Chem. I 2½ 6 84 Rhetoric II 5 — 98 Anatomy I 2½ 8 137	
WINTER TERM: Animal Nutrition 2½ — 85 Civies 5 — 106 Soil Physics I 2½ 4 68 Bacteriology III 2½ 4 79 Zoölogy II 2½ 4 102	
SPRING TERM: Stock Feeding 5 — 75 American History 5 — 106 Crop Production I 5 6 70 Poultry 2½ 2 129	

Horticulture and Forestry Course.

The object of the study of horticulture in the general, agronomy, animal husbandry, dairy and domestic science courses is to give the student such training in the principles underlying the propagation and general care of horticultural varieties as will enable him to appreciate and successfully grow the vegetables, fruits, flowers and trees that are necessary for the best development of the home, in either city or country. Whatever the occupation or location, the quality of the home determines to a great degree the quality of the citizen, and the home provided with the garden's best products and surrounded by nature's works of art approaches the ideal.

To teach how to grow these is the aim of the department, and the garden, nursery, orchard and campus supplement the text-book by furnish-

ing materials for the student's inspection and observation.

For the student who finds that special lines of horticulture offer a congenial and profitable occupation, the special courses are offered. The preparation work in the sciences which forms the foundation for practical scientific work is for the most part identical with the needs of the student in general agriculture. During the junior and senior years, special technical work may be taken in the lines of fruit-growing, floriculture, forestry and landscape-gardening.

There is opportunity in each line for men who can do things right, and the object of these special courses is to familiarize the students with

the practical and scientific way to do them.

In the work of pomology, the student studies the tree and the fruit; the soil that produced them; the insects and the fungi that affect them, and the means of their control. Methods of packing, shipping, storing and marketing are studied and discussed. The successful fruit-grower is the one who has learned to think definitely and accurately concerning his operations, and the spirit of this course is one of research and study rather than of formula.

The courses in floriculture and landscape-gardening aim to give the student knowledge of the methods of work necessary for success. Acquaintance with his materials and the uses others have made of them is

essential for success.

In the forestry course instruction is offered that will equip the student with a thorough knowledge of the importance of the subject, and acquaint him with the methods used in the best systems of economical work. An acquaintance with trees and their products is essential. The plantations of the College and the Experiment Station, and the department museum, furnish opportunity for forestry practice and laboratory research.

The work of the graduate year is intended to equip the student for employment offered by government service and lumber corporations.

HORTICULTURE AND FORESTRY COURSE.

SOPHOMORE.	SENIOR.
FALL TERM:	FALL TERM:
Chemistry I 5 4 83 Zoölogy I 5 4 102 Dairying 5 4 88 Drill — 4 121 WINTER TERM:	American History 5 — 106 Economics 5 — 95 Entomolgy II 2½ 4 103 Pomology I or — — 107 Forestry I 5 4 108 Thesis — 2 —
	WINTER TERM:
Chemistry I and II 5 4 83 Entomology I 5 4 103 Horticulture 5 4 107 Drill — 4 121	Rhetoric II 5 $-$ 98 Philosophy 5 $-$ 125 Farm Management 2½ 2 71 Fruit Growing or $ -$ 107
SPRING TERM:	Dendrology 5 4 109 Thesis 4 -
Chemistry II and III. 5 4 84 Live Stock I	SPRING TERM: English Literature 5 — 98 Plant Breeding 5 — 82 Veg. Gardening and 2½ 4 108 Landscape Gard'ing or 2½ 4 108 Silviculture 5 4 110 Thesis 4 — 4 —
JUNIOR.	
FALL TERM:	GRADUATE.
Bacteriology I 2½ 4 79 Plant Anatomy 5 4 80 Geology 5 - 103 Agricultural Chem. I 2½ 6 84	FALL TERM: Modern Language I 5 — 105 Public Speaking II 5 — 136 Pomology II or — 108 Forestry II or — 111
WINTER TERM:	Greenhouse Constr. and Heating 5 8 119
Civics 5 — 106 Plant Physiology 5 4 81 Soil Physics I 2½ 4 68 Agr. Chem. Lab. II — 4 84 Animal Nutrition 2½ 85	WINTER TERM: Modern Language II 5 — 105 Plant Pathology II 5 4 82 Prin. Fruit Growing or — 108 Dendrology or — 109
Spring Term:	Greenhouse Mang 5 8 112
Plant Pathology I	SPRING TERM: Modern Language III. 5 — 105 Fruit Products 5 4 — Prin. of Landscape Gardening or — 108
	Forest Policy or 5 8 112

Veterinary Science Course.

The increased number and value of the live stock of Kansas have created a demand in the last few years for first-class veterinarians far in excess of the supply. The breeder of nighly bred stock, the large feeder, the farmer, all combine and call for more and better qualified veterinary surgeons; the practicing veterinarians during their busy season cannot do all the work necessary and are asking for more help. The breeder, feeder and farmer all recognize the fact that there is a difference between the "horse doctor" and the veterinarian, and will trust their sick animals in the hands of the former only when the latter is not available. Thus, in the state of Kansas, has the demand for such qualified men been so great that the Board of Regents could no longer resist the pressure, and September 1, 1905, inaugurated a full course of study in veterinary science, fitted specially to the demand of the times, equal in broadness and thoroughness to the best veterinary schools in existence. The wisdom of such a course has already been demonstrated in the work done and the qualification of the graduates.

The work is arranged to give instruction along those lines which will insure the graduation of veterinarians thoroughly qualified in every respect. The course, extending over three years, gives the student ample opportunity to obtain a thorough, practical education in veterinary science. It is based upon the principle of giving a thorough foundation before specializing; it thus insures the graduate being fully qualified to enter a wide field of usefulness. It is the aim of the course to provide a thorough education in all branches pertaining to veterinary science, at the same time instructing the student in his duties as an American citizen. The demand for veterinarians all the world over is constantly increasing. To meet this demand this course is made strong in the branches underlying the profession—anatomy, physiology, histology, pathology, materia medica, and bacteriology. Throughout the entire course each student receives personal instruction in the practical and theoretical details of the profession.

The call for up-to-date practitioners has increased greatly the last few years, and a thoroughly qualified practitioner can find scores of locations where he can at once pay his expenses and soon work up an enviable practice—one which, financially, far exceeds that of his brother M. D., who may have been located for years. Socially the standard has been materially raised, and the veterinarian of to-day is held at his true worth.

The course as presented on the opposite page embodies the training necessary to fill the above requirements.

VETERINARY COURSE.

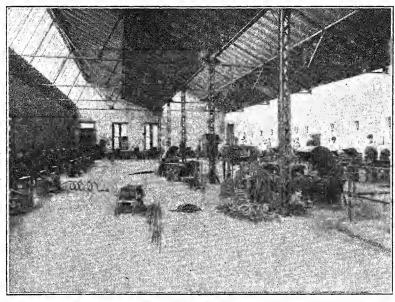
SOPHOMORE.	SENIOR.
FALL TERM:	FALL TERM:
Anatomy I 2½ 10 1 Chemistry I 5 4 Histology I 5 4 1 Drill - 4 1	37 Civics 5 - 106 83 Medicine III 2½ - 142 37 Live Stock II 2½ 4 75
WINTER TERM:	Physical Diagnosis 6 142
Anatomy II	WINTER TERM: 38 Medicine IV 5 — 142 38 American History 5 — 106 21 Stock Feeding 5 — 75
SPRING TERM: Anatomy III 2½ 6 1	Surgery IV 5 4 142 Clinic * 139
Physiology Comp. II 5 2 1	38
Chemistry II and III 5 4 Pathology I 5 - Drill - 4 1	38 Infectious Diseases 5 — 142 21 Medicine V 5 — 143 Obstetrics 5 — 143 Economics 5 — 95
JUNIOR.	Hematology — 4 143 Operative Surgery — * 143
FALL TERM:	Operative Surgery * 143 Clinic * 139
Anatomy IV	38 Thesis 4 — 39 GRADUATE.
WINTER TERM:	Chemistry IV 5 4 —
Anatomy V 2½ 6 1	79 Clinic - * 139
Medicine I 2½ - 1 Surgery I - 2 Public Speaking I 5 - 1	41 WINTER TERM: 42 Zoölogy II 2½ 4 102
SPRING TERM: Medicine II 5 — 1	Sanitary Medicine 5 - 143
Surgery II 2½ 2 1 Rhetoric II 5 —	42 Ginie — * 139 98 General Terrar
Parasitism 2½ —	42 Animal Breeding 5 — 75 Embryology 5 4 103 Surgical Anatomy 5 — 143 Operative Surgery * 143 Clinic * 139

^{*} Number of hours limited only by the amount of work on hand.

Mechanical Engineering Course.

The course in mechanical engineering is designed to fit its graduates for positions of authority and responsibility in this profession. It prepares for the successful management and superintendence of factories and power plants; for the design of power and machinery installations; for the design and construction of machine tools, steam- and gas-engines, compressors, hydraulic machinery, etc., and for the design and erection of mill and engineering buildings.

The course of study has been laid out with the aim of securing a judicious mixture of theory and practice, such as will not only give the student the technical skill required for engineering operations, but also a broad grasp of the fundamental principles of his profession. The advantages of combining a practical application of principles with theoretical instruction at the time these principles are being impressed by classroom work is well known. The shop work, being purely educational in its character, is so arranged that each student can make as rapid advancement as possible. Instruction is given by skilled workmen, and the work carried on is of a practical character, being, in fact, the building of lathes, engines, drills and machinery for the market and the department. In all shop practice the students work from blue-prints, thus learning to read drawings readily and supplementing the work of the drawing department.



Blacksmith shop.

MECHANICAL ENGINEERING COURSE.

SOPHOMORE.	SENIOR.
FALL TERM:	FALL TERM:
Algebra IV 5 — 113 Descrip. Geometry 5 4 77 Chemistry I 5 4 83 Blacksmithing II — 4 114 Drill — 4 121	American History 5 — 106 Steam Engineering II (Therm.) 5 — 116 Applied Mechanics II 5 — 116 Mech. Drawing VI — 4 117
WINTER TERM:	Engineering Lab. II 4 117 Graphic Statics 3 117
Analytical Geometry 5 — 113 Public Speaking I 5 — 136 Chemistry I and II 5 4 83	Graphic Statics 3 117 Machine-shop IV 4 117 WINTER TERM:
Mech. Drawing I 4 114 Foundry - 4 115 Drill - 4 121	Economics
SPRING TERM:	(Boilers) $5 - 117$ Applied Mechanics III, $5 - 117$
Differential Calculus 5 - 113	Mech. Drawing VII 4 117
Kinematics I 5 - 115	Mech. Eng., Lab. I 6 118 Machine-shop V 4 118
Chemistry II and III 5 4 84 Mech. Drawing II 4 115	Machine-shop V 4 118 Spring Term:
Pattern Making — 4 115 Drill — 4 121	English Literature 5 - 98
JUNIOR.	Steam Engineering IV (Therm.) 5 — 118
FALL TERM:	Hydraulies I 5 — 118
Integral Calculus 5 — 113	Mechanical Drawing VIII 4 118
Kinematics II 5 — 115	Mech Eng Lah II — 6 118
Physics III (Mech.) 5 4 128	Thesis 119
Mech. Drawing III 6 115 Machine-shop I 4 115	
WINTER TERM:	GRADUATE.
Rhetoric II 5 - 98	FALL TERM:
Steam Engineering I	Modern Language 1 5
(Valve Gears) 5 - 115	Electrical Engineering, 5 4 Mill and Structural
Physics IV (Light and Electricity) 5 4 128	Engineering 5 10 118
Mech. Drawing IV 6 116	WINTER TERM:
Machine-shop II 4 116	Modern Language II 5 — 105
SPRING TERM:	Power Plant Eng'r'g 5 6 119
Civics 5 — 106	Hydraulics II 5 6 119
Applied Mechanics I 5 — 116 Physics V (Sound and	SPRING TERM:
Heat) 5 4 128	Modern Language III, 5 — 105
Mechan. Drawing V — 4 116 Engineering Labo. I — 3 116	Locomotive Eng'r'g 5 8 119 Contracts and Spec 3 — 119
Machine-shop III 4 116	Contracts and Spec 3 — 119 Seminar 2 — 119

Electrical Engineering Course.

The essential elements underlying a sound engineering training are based upon a thorough study of mathematics and the physical sciences. The professional work of this course begins in the third year and continues throughout the course. The graduate year is essentially technical. General-culture subjects are offered during the entire course for the purpose of providing a broad general training, so necessary to ultimate success in engineering.

Emphasis is placed upon training to deal with forces and matter according to scientific principles, rather than in the accumulation of facts. The department laboratories are well equipped with the various measuring instruments, standardizing apparatus, and the different types of

dynamo machinery.

The different subjects are presented in the classroom and supplemented by laboratory practice. The course provides a liberal training in wood- and iron-working, mechanical drawing and machine-shop practice. The laboratory experiments selected for the student are designed to give a clear physical conception of the theoretical work of the classroom and a view of the practical field which he is to enter.

During the fourth year extended practice is given in the dynamo laboratory, involving commercial applications of the different types of electrical machinery. Sufficient time is given to the design of electrical machinery to acquaint the student with the fundamental principles of

design.

The laboratory equipment has been carefully selected and consists of the leading types of dynamo machinery and a very complete line of standard measuring instruments. Students are given extensive practice in connecting up the different types of machines for testing purposes and for standard commercial work. This practice work and testing extends throughout the senior year, and is intended to give the student familiarity with the underlying principles of the different machines and a knowledge of the care necessary to operate them successfully. Opportunity is also given to undertake the investigation of commercial problems as they are sent to the College from the different central stations of the state.

In connection with the regular work of the classroom and laboratory, extensive references are given to leading books on technical engineering. In connection with the laboratory work a certain amount of library work is required. During the year 1908 a College branch of the American Institute of Electrical Engineers was organized. The branch meets the first Tuesday of each month. At these meetings the instructors meet with the students for the discussion of technical subjects in engineering. Consulting engineers and central-station managers are invited to present papers at these meetings. The student is thus brought directly into contact with engineering progress.

ELECTRICAL ENGINEERING COURSE.

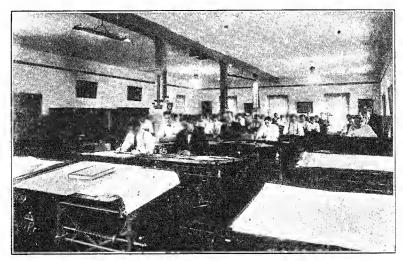
SOPHOMORE.	SENIOR.
FALL TERM:	FALL TERM:
Chemistry I 5 4 83 Descriptive Geometry, 5 4 77 Algebra IV 5 — 113	American History 5 - 106 D. C. Machine II 5 4 99 Electric Instruments
Blacksmithing II — 4 114 Drill — 4 121	and Calibration 5 4 100 Machine-shop IV 4 117 Engineer'g Lab., E.I 3 116
WINTER TERM:	WINTER TERM:
Analytical Geometry 5 — 113 Chemistry I and II 5 4 83 Public Speaking I 5 — 136 Foundry 4 115 Mech. Drawing I 4 114 Drill 4 121	Steam Engr., E. I
SPRING TERM:	SPRING TERM:
Chemistry II and III. 5 4 84 Differential Calculus. 5 — 113 Kinematics I 5 — 115 Pattern Making — 4 115 Mech. Drawing II — 4 115 Drill — 4 121	Economics 5 — 95 Altcurrent Mach. II 5 4 100 Altcurrent Design . — 2 101 Power Transmission 2½ — 101 Electric Installation 2½ — 101 Thesis 4 —
JUNIOR.	GRADUATE.
FALL TERM:	GRADUATE. FALL TERM:
FALL TERM: Integral Calculus 5 — 113 Physics III (Mech.) 5 4 128 Rhetoric II 5 — 98	
FALL TERM: Integral Calculus 5 - 113 Physics III (Mech.) 5 4 128	FALL TERM: Altcurrent Mach. III, 5 4 101 Telephony 5 4 101
FALL TERM: Integral Calculus 5 — 113 Physics III (Mech.) 5 4 128 Rhetoric II 5 — 98 Mech. Drawing III 6 115 Machine-shop I 4 115 WINTER TERM: Physics IV (Light and	FALL TERM: Altcurrent Mach. III, 5 4 101 Telephony
FALL TERM: Integral Calculus 5 — 113 Physics III (Mech.) 5 4 128 Rhetoric II 5 — 98 Mech. Drawing III 6 115 Machine-shop I 4 115 WINTER TERM: Physics IV (Light and Electricity) 5 4 128	FALL TERM: Altcurrent Mach. III, 5 4 101 Telephony 5 4 101 Elective 5 - WINTER TERM: Electrical Traction 5 - Station Design 5 4 101
FALL TERM: Integral Calculus 5 — 113 Physics III (Mech.) 5 4 128 Rhetoric II 5 — 98 Mech. Drawing III 6 115 Machine-shop I 4 115 WINTER TERM: Physics IV (Light and Electricity) 5 4 128	FALL TERM: Altcurrent Mach. III, 5 4 101 Telephony 5 4 101 Elective 5 WINTER TERM: Electrical Traction 5 - 101 Station Design 5 4 101 Elective 5
FALL TERM: Integral Calculus 5 — 113 Physics III (Mech.) 5 4 128 Rhetoric II 5 — 98 Mech. Drawing III 6 115 Machine-shop I 4 115 WINTER TERM: Physics IV (Light and Electricity) 5 4 128 Civics 5 — 106 Applied Mech. E 5 — 119	FALL TERM: Altcurrent Mach. III, 5 4 101 Telephony 5 4 101 Elective 5 — WINTER TERM: Electrical Traction 5 — 101 Station Design 5 4 101 Elective 5 — SPRING TERM: Electric Lighting 5 — 101 Steam Engineering II, 5 4 116

Civil Engineering Course.

The civil engineering course aims to equip young men to follow one of the several branches of this profession. The scope of civil engineering is so broad that it is not feasible to attempt to make specialists of its graduates, but it is desirable to give them a thorough training in the theory and practice of the fundamental principles of the course. The principles are common to the various branches of the work, and this training will enable the graduate to take up such specialty as his tastes and ability dictate.

Some of the lines of work open to the graduates of the civil engineering course are: Surveying, railroad location and maintenance, municipal engineering, hydraulic power-plant design, bridge and structural design, etc.

As in the other courses, the student's time is divided between the study of principles in the classroom and their applications in the drafting-room, field, and laboratories.



Drafting room.

CIVIL ENGINEERING COURSE.

SOPHOMORE.	SENIOR.
FALL TERM: 5 — 113 Descrip. Geometry 5 4 77 Chemistry I 5 4 83 Surveying II — 4 86 Drill — 4 121 WINTER TERM:	FALL TERM: American History 5 — 106 Geology II 5 4 104 Applied Mech. II 5 — 116 Civil Eng. Draw. III 4 87 Graphic Statics — 3 117 Engineering Lab. II — 4 117
Analytical Geometry . 5 — 113 Public Speaking I 5 — 136 Chemistry I and II . 5 4 83 Mech. Drawing I — 4 114 Surveying III — 4 86 Drill — 4 121	WINTER TERM: Economics 5 95 Hydraulics I 5 118 Applied Mech. III 5 117 Civil Eng. Draw. IV 6 87 Civil Eng. Lab 8 -
SPRING TERM: Differential Calculus 5 — 113 Kinematics I 5 — 115 Chemistry II and III 5 4 84 Mech. Drawing II 4 115 Surveying IV 4 86 Drill 4 121	SPRING TERM: English Literature
JUNIORS.	GRADUATE.
FALL TERM: Integral Calculus 5 — 113 Civics 5 — 106 Physics III (Mech.) 5 4 128 Mech. Drawing III — 6 115 Surveying V — 4 86	FALL TERM: Modern Language I 5 — 105 Structural Engi. II (Iron and Steel) 5 8 119 Hydraulics II 5 6 119 WINTER TERM:
WINTER TERM: Rhetoric II 5 — 98 Spher. Trigonometry. 2½ — 86 Astronomy	Modern Language II. 5 — 105 Steam Engi. C 5 6 119 Municipal Engi 5 6 87 Spring Term:
Physics IV (Light and Electricity) 5 4 128 Civil Eng. Draw. I 6 86 Surveying VI 4 86	Modern Language III, 5 — 105 Structural Engineer- ing III (Concrete
SPRING TERM: 5 - 86 Geodesy	and Masonry) 5 8 119 Contracts and Spec 3 — 119 Seminar 2 — 119

Architecture Course.

This four-year course is designed to meet the rapidly growing needs of

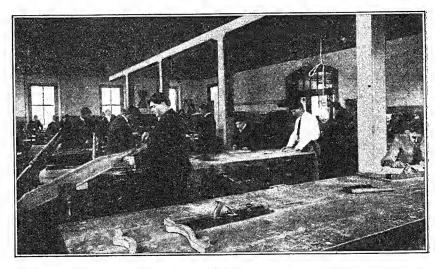
the building profession.

The freshman and sophomore years are identical with those of the me-The Ireshman and sophomore years are identical with those of the mechanical and electrical engineering courses, and comprise, as will be seen in other parts of the catalogue, vigorous work in mathematics, drawing, surveying, physics, kinematics, and English, supplemented by practice in the carpenter shop, the machine-shop, the foundry, and the modeling room. The junior and senior years are given to advanced work in the lines named, supplemented by theoretical and practical work in perspective and rendering building construction modeling specifications and mnes named, supplemented by theoretical and practical work in perspective and rendering, building construction, modeling, specifications and estimates, architectural drawing, architectural composition, etc.

The graduate year is devoted to advanced work in architectural composition and other professional branches, including electric wiring, structural engineering, municipal engineering and civic improvement. It also makes provisions for the study of a modern language.

The College is well equipmed to maintain a course in architectural.

The College is well equipped to maintain a course in architecture. Its mechanical workshops are the most extensive west of the Missouri; its physical science laboratories are provided with an abundance of modern physical science laboratories are provided with an abundance of modern scientific apparatus; it owns a rapidly growing collection of several hundred plaster casts, tile and terra-cotta samples, marble specimens, etc.; it has a fine collection of models of the classic orders; a collection of blue-prints of over fifty residences, schoolhouses and churches and nearly all the Kansas state buildings; a large number of modern books on architecture and engineering; a complete bound set of the *International* edition of the *American Architect*; a complete bound set of the *Inland Architect*; also of several European architectural magazines; a well-equipped tect, also of several European architectural magazines; a well-equipped blue-print room, etc. The substantial stone buildings of the institution, their complete system of water-supply, drainage, heating and lighting, and one of the largest and handsomest campuses to be found in America furnish excellent illustrative material.



Wood shops.

ARCHITECTURE COURSE.

SOPHOMORE.	SENIOR.
FALL TERM: Chemistry I	FALL TERM: American History 5 — 106 Heating and Plumbing, 5 — 78 History of Arch 5 — 77 Graphic Statics— 3 117 Rendering in Wcolor,— 5 77 Architectural Comp. I,— 6 78
Chemistry I and II 5 4 83 Analytical Geometry 5 - 113 Public Speaking I 5 - 136 Perspective I 4 77 Architectural Draw. I, - 4 77 Drill 4 121	WINTER TERM: 5 - 95 Economics
SPRING TERM: Chemistry II and III. 5 4 84 Differential Calculus. 5 — 113 Kinematics I	SPRING TERM: 98 English Literature 5 — 79 Seminary 5 — 79 Landscape Arch 5 4 78 Arch Comp. III 6 78 Thesis 4 79
JUNIOR.	GRADUATE.
FALL TERM: Integral Calculus 5 — 113 Physics III 5 4 128 Residences 5 4 78 Architec Draw. III 6 77	FALL TERM: Modern Language I 5 — 105 Building Laws 5 — 79 Civic Improvement 5 6 79 Arch. Comp. IV 8 78
WINTER TERM: Rhetoric II	WINTER TERM: Modern Language II. 5 — 105 Electrical Wiring and Lighting
SPRING TERM:	Arch. Comp. V 4 78
Civics. 5 — 106 Applied Mechanics I. 5 — 116 Physics V. 5 4 128 Perspective II. — 4 77 Architec. Draw. V. — 6 77	Spring Term: Modern Language III, 5 — 105 Landscape Gardening, 5 — 108 Structural Enging A 5 4 119 Arch. Comp. VI— 10 78

Printing Course.

For some time it has been apparent that a broader education of the printing craft is needed. People are awakening to an appreciation of what is truly artistic and beautiful, and there is a growing demand for a higher class of printing. Notwithstanding this demand, the oppor-

tunity for the apprentice is less to-day than ever before.

The average printing-office does not provide a thorough training for the apprentice; nor does it give the young man an education such as a printer needs. Unless he be given a chance to supplement his composing-room instruction with art he will remain a mere mechanical tool. His instruction in the press-room should be supplemented with work in the machine-shops and the handling of gasoline-engines and electric motors.

The day when the "learning of the trade" was all that was necessary is past. The successful printer of to-day must have a broader knowl-

edge than is obtained through a routine of every-day work.

The all-around printer is becoming a thing of the past. Men who are capable of "running" a country newspaper are growing scarcer every day. The country newspaper man should be a compositor, a job-printer, a good "stone" man, a pressman—in fact, should be an all-around man—not so much to do the work himself as to know when it is properly done and to be able to intelligently and profitably direct those in his employ.

The four-year course recently adopted by the Board of Regents of the Kansas State Agricultural College is intended to give a broadening education with a practical knowledge of the trade. The College maintains and operates a well-equipped printing-office. The equipment consists of a Babcock Optimus, two Chandler & Price Gordons, perforator, stitcher, and other modern machines, all run by electric power; a large assortment of job faces, all in series and in cabinets, and enough body type to keep three stated publications going, besides the numerous pamphlets, bulletins, etc., constantly on hand.

Students in this course will receive instruction in the every-day work of the office, and this will be supplemented by classroom work in scientific, biologic and cultural studies, intended to broaden the intellect and sharpen the appetite for that higher knowledge which always brings its reward financially as well as intellectually. There will be no theoretical

work-all practical.

It is not expected that at graduation a student will be an expert in any line, but he will have a broad foundation upon which to build, and will be far better able to cope with the problems of life than would be possible otherwise. The course leads to the degree of bachelor of science, and when the graduate goes out with a well-balanced education and a technical training such as he shall have received he will find little difficulty in reaching the height of his ambitions if he follows the motto of our state, "To the Stars Through Difficulties." Those wishing to specialize in any branch of the technical work of the course may take the graduate or fifth year, which includes German and carries with it a special degree.

PRINTING COURSE.

SOPHOMORE.	SENIOR.
FALL TERM: 5 4 83 Spelling 5 - 133 Composition I - 10 133 Distribution - 4 133 Machine-shop I - 4 115 Drill - 4 121	Fall Term: English Literature I. 5 — 98 American History 5 — 106 Job Presswork II — 16 133 Trimming and Tabbi'g, — 2 133 Meth. and Managem't, — 4 138 Paper, Rollers, Inks — 2 133
WINTER TERM: Chemistry I and II. 5 . 83 Public Speaking I. 5 — 136 Punctuation . 5 — 133 Composition II . — 8 133 Drill 4 121	WINTER TERM: Economics 5 — 95 English Literature II 5 — 98 Psychology 5 — 125 Cylinder Presswork I. — 16 133 Spring Term:
SPRING TERM: Chemistry II and III. 5 4 84 Reportorial Work I. 5 - 133 Public Speaking II. 5 - 136 Composition III . 6 133 Correcting Proofs . 2 133 Drill . 4 121	Philosophy 5 — 125 American Literature 5 — 98 Cylinder Presswork II, — 16 133 Thesis 5 — GRADUATE. FALL TERM:
JUNIOR. FALL TERM: Rhetoric II 5 — 98 Proof-reading I 2½ — 133 Reportorial Work II 5 — 133 Zoölogy I 5 4 102	Elective
Ad. Comp. and Dist— 4 133 WINTER TERM: English History	Color Composition 4 133
SPRING TERM: 5 - 106 Civics 5 - 106 Bacteriology I 2½ 4 79 Motors 2½ 4 119 Estimating Jobs - 2 133 Job Presswork I - 10 133 Cutting Stock - 2 133	

Domestic Science and Art Course.

The aim of the domestic science and art course is both specific and general. While it emphasizes, primarily, the practical and material side of life, it does not stop here. To the end that well-rounded culture may be secured, studies are offered in this course in English, history, economics, psychology, and public speaking. The young women are constantly reminded that life is not all drudgery; that technical knowledge and scientific skill, even, fail to include the full meaning of education in its highest sense. They are taught that any training that fails to develop, harmoniously, body, mind and spirit is inadequate and incomplete. They are brought face to face with ideals as well as with actualities; and are made to see that, while skilful labor is the crowning dignity of life, grace, refinement and self-poise are the highest ingredients of true service.

The object of this course is to fit young women as home-makers and as capable women in whatever sphere their life-work may be. Such, then, as tends to cultivate correct observation, accurate reasoning, generous judgment and an appreciation of the beautiful in nature and art may rightfully find a place in such a course. That which most especially pertains to woman's province, the home, is dependent upon the sciences of chemistry, physiology, bacteriology, and hygiene, and direct applications of the principles of these sciences are made in the lessons in cookery,

dietetics, home nursing, and household management.

Technically, domestic science is an application of the science of bacteriology to the study of home sanitation and hygiene, of physiology and chemistry to the composition of foods and their effect, of physics as applied to heating and lighting. These sciences necessarily, therefore, underlie the successful and intelligent conduct of the home, whether it be large or small, and must be included in any well-arranged course of domestic science. In the kitchen laboratory a standard system of measurement is taught, and constant emphasis is placed upon neatness, accuracy and economy in the handling of materials and utensils.

Instruction in domestic art is designed to give the student, among other things, a thorough training in both plain and fancy sewing. Lectures and laboratory exercises cover, in part, plain and fancy needlework, designing,

making waists, skirts and the more substantial class of gowns.

The graduate year is recommended for all who desire to teach domestic science or domestic art. It is with difficulty that the domestic science training schools meet the demand for well-prepared teachers, a demand which is increasing more rapidly each year. While those who graduate from the four-years course will be able to teach successfully, there will be much left to learn both in the sciences and in their application to household affairs. The graduate year will make possible a much more technical training than is possible in the preceding years.

DOMESTIC SCIENCE AND ART COURSE.

SOPHOMORE.	SENIOR.
FALL TERM: 5 4 83 Chemistry I 5 2 138 Physiology 5 2 138 German I 5 - 105 Color and Design II 4 77 Physical Tr. or Music, 4 126	FALL TERM: Civics
WINTER TERM: Chemistry I and II 5 4 83 Zoölogy I 5 4 102 German II 5 — 105 Home Decorations— 4 77 Physical Tr. or Music,— 4 126	WINTER TERM: English Literature II, 5 — 98 Home Management 5 — 94 American History 5 — 106 Elective 5 — — Spring Term:
SPRING TERM: Chemistry II and III 5 4 84 German III 5 — 105 Entomology I 5 4 103 Dressmaking 6 91 Physical Tr. or Music, 4 126	Economics
JUNIOR.	FALL TERM:
FALL TERM: Human Nutrition 5 — 85 Public Speaking I 5 — 136 German IV 5 — 105 Bacteriology I 2½ 4 79	Elective
WINTER TERM: Domestic Science I 5 10 93 Rhetoric II 5 — 98 Horticulture 5 4 107	Domestic Science IV. 5 — 95 Physiological Chem 5 6 85 SPRING TERM:
SPRING TERM: Domestic Science II 5 8 93 Psychology 5 - 125 Bacteriology IV Lab 6 79 English History 5 - 106	Elective

General Science Course.

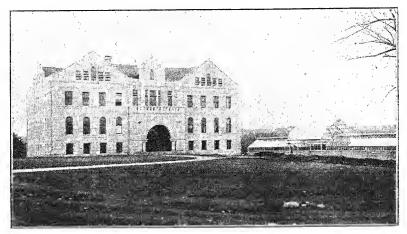
This course is designed to meet the wants of those who seek to obtain a sound and liberal education through the study of the mathematical, physical and natural sciences, English language, and history. It is well adapted to the student who has not yet decided upon his life-work, or who wishes to make this a foundation for further study. It is based on the principle of "a general knowledge of all things before a special knowledge of a few." It will be well worth one's time to take this course before beginning the work of a technical or professional course. Laboratory and industrial work are a feature of this course, as of all others. The electives continuing through the junior and senior years give opportunity for special lines of study. The electives are to be taken in groups of three and the two years to be related as far as practicable.

The following groups of electives are suggested. Other groups may be arranged from studies in other courses:

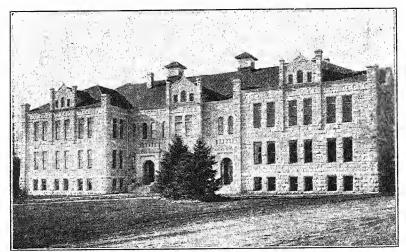
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Public Speaking II.
English History.
  Analytical Geometry.
  Differential Calculus.
                                                          American Literature.
(Integral Calculus.
                                                           History of Education.
Physics VI.
Physics VII.
Physics VIII.
                                                        Philosophy of Education.
Methods and Management.
 Inorganic Chemistry I.
Inorganic Chemistry II.
Organic Chemistry I.
                                                          Entomology.
                                                          Entomology.
                                                          Entomology.
                                                           German I.
Plant Anatomy.
Plant Physiology.
Plant Pathology I.
                                                           German II.
                                                          German III.
                                                          Music.
 Human Nutrition.
Domestic Science I.
Domestic Science II.
                                                          Music.
                                                        Music.
  Advanced Dressmaking.
  Tailoring.
Art Needlework.
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GENERAL SCIENCE COURSE.

SOPHOMORE.	JUNIOR.
FALL TERM: Chemistry I 5 4 83 German I 5 — 105 Zoölogy I 5 4 102 Projection 4 —	FALL TERM: Public Speaking I 5 — 136 Physiology 5 2 138 Elective 5 12 —
Drill or Physical Training or Music	WINTER TERM: English History 5 — 106 Geology 5 — 103 Elective 5 12 — SPRING TERM: Civics 5 — 106 Rhetoric II 5 — 98 Elective 5 12 — SENIOR.
Chemistry II and III. 5 4 84 German III	FALL TERM: 5 — 106 English Literature I. 5 — 98 Elective. 5 12 — WINTER TERM: Psychology. 5 — 125 English Literature II, 5 — 98 Elective. 5 12 — SPRING TERM: Economics. 5 — 95 Philosophy. 5 — 125 Elective. 5 12 — Thesis — — —



Horticulture Hall and Greenhouse.



Domestic Science and Art Hall.

OUTLINE OF INSTRUCTION.

AGRONOMY.

Agronomy includes four general lines of study: Soils, crops, farm mechanics, and farm management.

The study of soils in the agronomy course is, in part, an application

The study of soils in the agronomy course is, in part, an application of the sciences of geology, physics, chemistry and bacteriology. It includes, also, practice methods in soil tillage and cultivation and deals mainly with the physical and fertility problems of the soil.

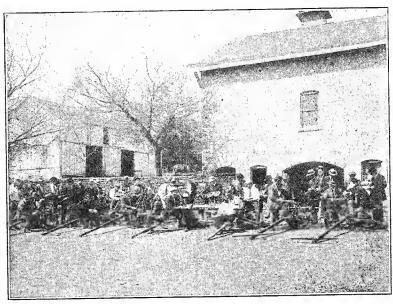
The word "crops" indicates the character of the study, and includes not only a study of the plants which comprise the great farm crops, but also their methods of breeding, culture, harvesting, marketing, uses, etc. In the published course of study, farm mechanics is given under the head of "Farm Equipment." It is also taught as an elective (farm machinery) in the graduate year. This subject, like soils, includes the application of physical and mechanical principles and facts to farming operacation of physical and mechanical principles and facts to farming operations, and deals largely with the machinery of the farm. It is especially important that the farmer know and understand the implements which are used in farming operations. Again, the principles of building construction as related to ventilation, lighting, and economy in building in the housing of stock and crops are principles of physics and architecture which must be treated from the agriculture standpoint in order that this art and science be of the greatest value to the educated farmer in his work.

A knowledge of the sciences as related to agriculture and skill in producing large crops and fine herds are important factors, but proper manducing large crops and fine herds are important factors, but proper management of the farm and the farming business is the essential feature which largely determines success. Farm management is the crowning study in agriculture. It is the practical application of all the facts, principles and sciences related to agriculture, and includes the conducting or management of the farm, not only as regards present success and profits, but also with reference to the future prosperity of the farmer and the permanent advancement of agriculture. The study of farm management is a study of the farming hydroges in all its wide variations

and the permanent advancement of agriculture. The study of farm management is a study of the farming business in all its wide variations of class, character, and place.

It is proposed to make the studies in agronomy thoroughly practical. Agriculture is a business; it is not truly a science or art, but it depends upon science and art, and to understand the "principles of agriculture" requires a knowledge of many sciences. Physics, botany, chemistry, bacteriology, zoölogy and mathematics teach science and theory, and the studies in agriculture assist the student to make the annilication and nut studies in agriculture assist the student to make the application and put the theory and science into practice on the farm.

Agriculture. First year, spring term. Required of all male students. This is a study of elementary agriculture and serves, in part, as an in-This is a study of elementary agriculture and serves, in part, as an introduction to the several courses in agriculture: Agronomy, horticulture, animal husbandry, and dairying. It includes a study of the soil—its formation, texture, plant-food requirements, moisture, tillage, and fertility; the plant—its relation to the soil and climate, its propagation, growth and cultivation, and the kinds of crops and their culture; and the animal—its life, feeding, breeding, and management. Text-book, Brook's Principles of Agriculture, vols. I and II.



Studying farm machines.

Farm Equipment. This is a study of the laws and principles which control the practices of agriculture, including the following subjects: Farm machinery—invention, history, and development; a study of the principles of construction and operation, with a comparison of the different makes or types of machines of different kinds and classes according to their adaptation for special conditions and uses; friction and lubricants; construction and ventilation of farm buildings; construction and maintenance of country roads; farm wells, special attention being given to geological conditions favoring good wells, also the construction and care of same; principles of draft as related to the horse, the load and the road, including methods of hitching, construction of eveners, etc.

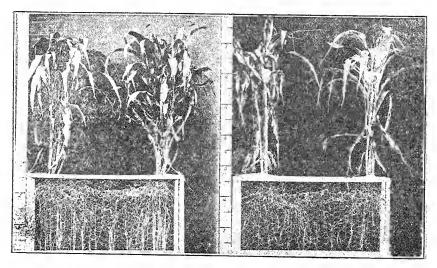
and care or same; principles of draft as related to the horse, the load and the road, including methods of hitching, construction of eveners, etc.

The above indicates the character of the work, the attempt being to give the student an acquaintance with the laws of nature and principles of mechanics which apply to agriculture, that he may act with reason and work to advantage. Text-books, King's Physics of Agriculture, and Farm Machinery and Farm Motors, by Davidson and Chase.

Soil Physics I. Third year, winter term. Required of students in all courses in agriculture. A course designed to give the student an understanding of the effect of different methods of treating the soil upon moisture, texture, fertility, and production. It comprises a study of subjects as follows: The origin of soils and their formation; soil texture as influencing aeration, capillarity and diffusion; soil moisture and means of conservation; the washing of soils and means of prevention; the effects of spring and fall plowing upon the liberation of plant-food, conservation of soil moisture and temperature of the soil; and the implements of tillage and their effects on the physical condition of the soil. Text-book, King's Physics of Agriculture.

Laboratory—Will consist of the demonstration of the principles of

Laboratory.—Will consist of the demonstration of the principles of soil physics taught in the classroom. The student will be given practice work in determining air and water movements in soils; the water-holding capacity and capillary power of different types of soil; effect of organic matter on the water-holding capacity; the determination of real and



Corn roots.

apparent specific gravity, pore space, and mechanical composition of soils, etc.

Soil Physics II. Fourth year, fall term. Required of students in agronomy. A brief study of the major soil-forming rocks and minerals and their influence upon the texture, physical properties and fertility of the soil. The various methods of determining the physical composition of the soil will be considered, as well as the influence of the different physical components of the soil upon the water-holding power, capillarity, and osmosis. Problems in the handling of special soils, such as gumbo, hard-pan, and alkali, will be considered. Text-book, Hilgard's Soils.

Laboratory.—This will be a continuation of the work begun in soil physics I, and will consist of a detailed study of special soils as shown by the mechanical analysis by means of the centrifugal and eleutriator methods. It will include field-work on the effects of rolling, harrowing, and disking, and the time and depth of cultivation with reference to the temperature and moisture of the soil. A study of the detection of acid and alkali in soils, and different methods of reclaiming such soils, will be made. As far as possible, opportunity will be given for original research work. Prerequisite, soil physics I.

Soil Fertility. Fourth year, spring term. Required of students in agronomy. A study of commercial fertilizers, barn-yard manure, green manuring and crop rotation upon the quality and yield of various crops; the effect of different crops and different systems of farming upon the depletion of soil fertility; proper methods of handling, preserving and applying barn-yard manure; as well as determining the needs of the soil for commercial fertilizers and the kind of fertilizers to apply, etc. Textbook and lectures.

Laboratory.—Work in the laboratory will supplement the recitation work in demonstrating what influence fertilizers and manures applied to the soil at different times and in different amounts may have upon the quality and growth of various crops, also, how the plant-food of the soil is affected by continuous cropping with the same crops and a series of crops. The work will include a study of the fertility of soils of different types and the influence of different ways and times of preparing the seed-bed upon the liberation of plant-food. Prerequisites, soil physics and agricultural chemistry.

Crops I. Third year, spring term. Required of students in all agriculture courses. This is a study of the principal cereal crops—corn, wheat, oats, barley, rye, rice, etc.—and includes a complete study of each crop as regards botanical characteristics, methods of breeding, methods of selecting seed, preparation of the scii, planting, cultivation, harvesting, storing, marketing, and uses. The general subjects of soil fertility, rotation of crops, use of manures and fertilizers, and the prevention and destruction of noxious weeds, insect pests and diseases also receive attention in connection with the study of the different crops. Many varieties of each of the standard crops are grown upon the College farm, so that the student may see them, or at least see samples of them in the classroom, and thus become familiar with the variety types and characteristics. Text-book, Hunt's Cereals in America, with lectures and outside reading.

Laboratory.—The work in the laboratory consists largely of grain judging, the scoring of corn and the common cereal grains according to commercial standards and recognized standards of perfection for purebred varieties. A special study is made of corn and the selection of seed ears. It is surprising how few people can pick out a good ear of corn before they have been carefully instructed and trained in the vital points, both as to desirable qualities and defects. It is just as important to select and grow a pure and perfect type of corn, wheat, oats, or other crop, as it is to select and breed a well-formed hog or good type of dairy cow. A higher percentage of protein in the kernel, greater productiveness, greater hardiness, and other valuable qualities which may be bred into corn and other grains by carefully and intelligently selecting the seed may greatly increase the value of these crops to the farmer. Some laboratory study is also made of the plant, especially the fruit of the plant, as the spike, ear, and kernel, in order to compare the characters and become acquainted with the different types and varieties of the several groups of cereals. Text-book, Agronomy Department Grain Judging Guide.

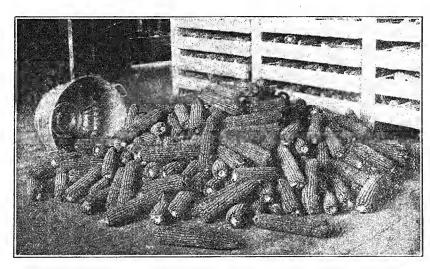


"When the fodder is in the shock."
(Out here in Kansas.)

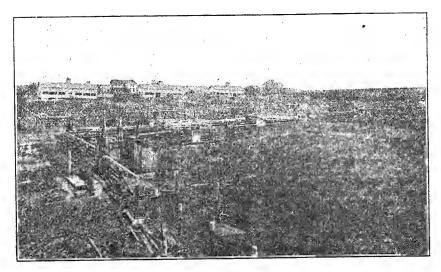
Crops II. Fourth year, winter term. Required of all students in agronomy and graduate students in the animal husbandry and dairy courses. This is a study of forage crops and crops used for special purposes, as hay, pasture, silage, soiling, green manure, cover crops, etc. The study will include not only methods of culture of grasses, clover, alfalfa, and annual forage crops, but also methods of making and preserving hay, other dry forage, and silage. The care and management of the pasture will be given special attention. Plans for rotation of soiling crops adapted to different sections of the state will also receive special attention. Practical notes will be made upon the adaptation of grasses and other crops for growing under different climatic and soil conditions, etc. Text-book, Shaw's books on Grasses, Clovers, and Forage Crops, with lectures and outside reading.

Laboratory.—The laboratory work will consist, in part, of a careful examination of specimens of the standard varieties of grasses, clovers and other forage plants, in order that the student may become familiar with the botanical characteristics of the plants which constitute the several crops. A study will also be made of grass, clover and alfalfa seeds with reference to quality, purity and freedom from adulterants and weed seeds. The student will become familiar with all of the common adulterants and learn to identify the seeds of noxious weeds which may be found in grass, clover or alfalfa seeds. This is a very important part in the study of crops, and should become a part of the education of every one who may engage in general farming or who may become interested in the breeding, sale or distribution of seeds. Text-book, Agronomy Department Seed Grading Guide.

Farm Management. Fourth year, winter term. Required of students in all the courses in agriculture. This is a brief study of the economics of agriculture: The relation of capital and labor to the farming business; rental versus ownership of lands; choosing a farm; systems of farming; farming compared with other lines of business; advertising; keeping farm accounts and farm records; the above relating to the business end of farming. Under farm management also are properly included the management of the farm as related to laying out the fields; planning general, permanent systems of crop rotation; the management



Seed-corn.



Feed lots.

of the soil, particularly as related to maintaining soil fertility and insuring the permanency of agriculture; general methods of handling manures and fertilizers; "crop practices," especially as related to saving and marketing produce, with general suggestions regarding the breeding of crops introducing new crops etc.

and marketing produce, with general suggestions regarding the breeding of crops, in roducing new crops, etc.

The general equipment of the farm and its management as related to different lines of farming are properly summed up in the study of farm management. As already stated, this is the crowning study in agriculture; the gathering together and the application to actual farming practices of all that has been taught and learned in the preceding studies in this course. Text-books, Card's Farm Management, Taylor's Farm Economics, and Farm Management (by Prof. A. M. TenEyck).

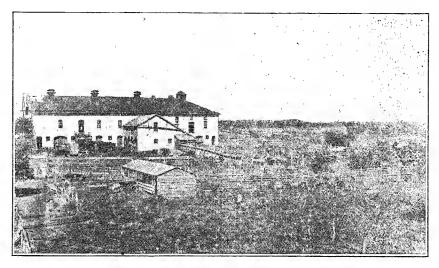
Laboratory.—Each student will be required to formulate general plans for carrying on some farm which he shall choose, and shall prepare a complete set of farm account-books, covering the business operations on such farm for one year.

ELECTIVES.

Crops III. Graduate year, winter term. One hour recitation and eight hours laboratory work. Advanced work in grain judging, which shall include not only practice work in judging and grading grain, but also general reading and investigation of the work of others. Thus the study will consist largely of practice and research work.

Crops IV. Graduate year, fall term. One hour recitation and eight hours laboratory work per week. A study of crop-improvement methods. The student will carefully investigate methods of breeding corn, wheat, and other crops. The work will be largely research work, in reading bulletins and publications on the subject. However, the student will be expected to carry out in the field or laboratory some practical breeding work.

Crops V. Graduate year, spring term. One hour recitation and eight hours laboratory per week. Advanced work in grading, storing and marketing hays and grains. This is, in part, a continuation of crops III. The student will receive expert instruction in the commercial grading of all kinds of hays and grains, its shrinkage or loss in storing, and the fluctuations of market prices with conditions affecting the same.



Barn and stock-yards.

If the student prefers he may take special advanced work in foragecrops investigation along any particular line in which he may be interested, which work will be largely outside reading and original investigation.

Field Work in Soils. Graduate.year, spring term. Two and a half hours recitation and five hours laboratory per week. This subject is pursued in lectures and recitations on the types of soils of the United States, methods of classification, and adaptability of different crops to soil classes.

Research Work in Soils. Fifth year, winter term. Ten hours laboratory per week. The student taking this course will carry out a definite line of original research work in soil physics and soil fertility along special lines of interest to the student. Prerequisites, soil physics II and soil fertility.

Irrigation and Drainage. Graduate year, fall term. Two and a half hours recitation and five hours laboratory per week. This study consists of lectures and recitations on the methods of irrigation and the construction of irrigation plants and ditches, duty of water, fertilizing value of water, and methods of handling different types of soil under irrigation. A study is made, also, of the condition of land which needs artificial drainage, cost and methods of constructing drainage systems, and the value of drainage in connection with irrigation systems.

Laboratory—The registrions will be symptometrical by a property of the condition of the co

Laboratory.—The recitations will be supplemented by practical problems in the cost and manner of constructing irrigation plants and drainage systems.

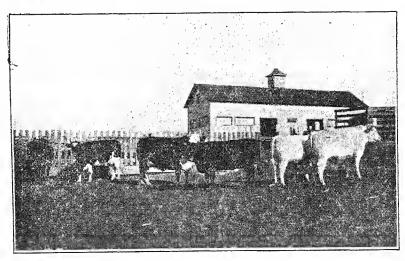
Agricultural History and Experimentation. Graduate year, winter term. Two and a half hours recitation and five hours laboratory per week. The first subject will be given through lectures, assigned readings, and recitations on the history and development of agriculture, with a study of the evolution of agricultural methods of different countries and their influence upon the agricultural problems of to-day. The development of the agricultural experiment stations of the United States and methods of station work will be presented to the students largely through assigned readings. Seminars will be devoted to the study of experiment station literature.

Farm Machinery. Graduate year, fall term. One hour recitation and eight hours laboratory work per week. This course will consist largely of laboratory work, and will include the taking down and setting up of the different types of field machinery; testing on the road and in the field the draft of wagons, plows and other farm machines. This study includes the practical application of the mechanical theories and principles taught in the classroom, which broadens the conception of these truths and makes them easier to grasp and retain, and more useful to the student. By studying the construction of machines the abstract mathematical laws are better understood and their significance becomes more evident. A student taking this course may become an expert in setting up and operating farm machinery. Outside reading and topic work.

ANIMAL HUSBANDRY.

Successful agriculture depends very largely on the quality and class of live stock kept on the farm. As the price of farm lands increases, the value of farm crops is also increased, and it becomes necessary to produce a better class of animals to consume many of the farm crops and convert them into marketable products. Realizing this, the work of this department has been planned to emphasize this fact and to encourage young men in the breeding and improvement of the various classes of domestic animals. The work has been planned with a view of giving a thorough training along the lines of stock judging and selection, stock-breeding, feeding, general care and management. The College herds have been carefully selected, and among them are found representatives of all the leading breeds of cattle, horses, sheep and swine.

1. Live Stock I. In this course a careful study is made of all the market types and classes of horses, cattle, sheep and swine. Two and one-half hours weekly are devoted to classroom work, and four hours weekly the students meet for laboratory work, which consists in scorecard practice with these various classes of animals and also work in the placing of groups.



Some prize cattle.

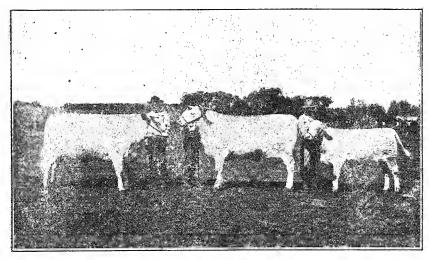
2. Live Stock II. This course takes up the origin and history of the various breeds of horses, cattle, sheep and swine. A careful study is made of all the breed characteristics. Four hours weekly are devoted to laboratory work, which consists of judging animals of the various breeds. The course must be preceded by anatomy I.

3. Stock Feeding. The practical feeding of the various classes of domestic animals for most practical results is given in this course. The student is shown how to apply his knowledge of feeding standards and tables of digestible nutrients in feeding-stuffs to actual feed-lot conditions; the most economical combinations of feeds for maintenance, the production of milk, and the growing and fattening of the various classes of animals for market. Special attention is given to conditions prevailing over our own state. The results of experimental feeding by the experiment stations of this and surrounding states are freely drawn upon in this subject. Animal nutrition must precede this course.

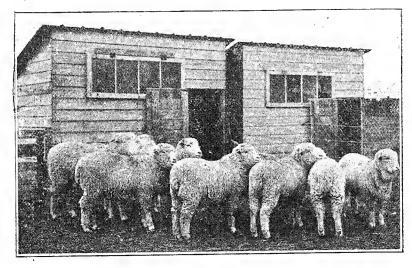
4. Pedigrees. This course consists entirely of laboratory work. The student makes a careful study of the rules and requirements for the registration of animals by the various record associations. Practical work in the writing of pedigrees of all the breeds of stock forms a large part of the work.

5. Live-stock Management. A careful study is made of the best methods of managing live-stock farms, including the housing and care of all classes of stock. The student is required to work out practical problems along the line of planning buildings, the arrangement of feedlots and such other conveniences as may be found needful and helpful in the successful management of a live-stock farm.

6. Animal Breeding. This subject is intended to give the student a knowledge of the underlying principles and practices which are concerned in the improvement of our domesticated animals. A careful study is made of the subject of variation in general. The subject of the transmission of characters and the behavior of the various characters in transmission is taken up. The subject also includes correlation, type and variability. A study is made of Mendel's law of hybrids. Prepotency of animals is studied as an influence in heredity. Practical problems involving the selection of animals and various systems of breeding, such as crossing, hybridizing, grading, line breeding and inbreeding are



Prize Short-horn herd.



Sheep.

studied. The student is shown how to maintain and improve his own flocks and herds by the application of these various fundamental principles of breeding. This course must be preceded by zoology I and II and by embryology.

ARCHITECTURE AND DRAWING.

Drawing is the language of form and the key to every artistic and nearly every industrial pursuit. The educational and practical value of a systematic course in its various branches can hardly be overestimated. The general aims of the several courses in industrial art are the same:

(a) The cultivation of observation and analysis of form; (b) the development of correct taste; (c) the teaching of the different methods of graphic representation; (d) the acquirement of skill in handling drawing tools.

Of the studies described below, Nos. 1 to 3, inclusive, are required in all courses; No. 5, in the general science course; No. 4, in the engineering courses; Nos. 10 and 11, in domestic science; and all Nos. except 10 and 11 in the architecture course.

The College furnishes drawing-board, T-square, triangles and water-colors for the graphic work done at the College; but all tools for home use, including drawing-board, T-square, triangles, compasses, shading pen, and protractor, must be furnished by the student.

1. Free-hand Drawing. First year, fall term. Exercises with forms involving the right line and the arc, illustrating the effects of geometrical arrangement, repetition, alternation, symmetry, proportion, harmony, and contrast. Study and drawing of conventional surface ornaments. Text-books, Walters's Industrial Drawing, envelopes 6 and 7.

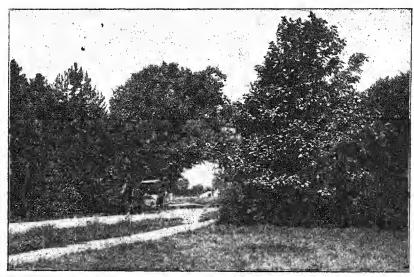
2. Object Drawing. First year, winter term. Discussion and drawing of geometrical models and simple objects. Exercises in shading from

the object and from imagination.

3. Geometrical Drawing. First year, spring term. Construction of perpendiculars, parallels, angles, polygons, tangents, etc. Construction of the ovoid, oval, conic section lines, spiral, and helix. Drawing, in India ink and water-colors, of various geometrical designs and architectural forms. Lettering. Use of drawing-board and T-square. Text-book, Walters's Industrial Drawing, envelopes 11 and 12.

- 4. Descriptive Geometry. Second year, fall term. Principles of orthographic projection; the profile plane; the secant plane; rotation in space; change of ground line. Development of surfaces. Interpenetrations of geometric solids. Projection of conic sections. Construction of screw forms. Shades and shadows of simple geometric forms. Problems in monodiametric and isometric projection. Discussion and solution of the usual problems relating to the point, right line, and plane. Generative and construction of the construction of the state of the construction of ration and classification of lines and surfaces. Discussion and construction of tangents, normals, and asymptotes to lines and surfaces. General characteristics of warped surfaces. Graphic analysis of the hyberbolic paraboloid, the conoid, the hyperboloid of revolutions, the cylindroid, the helicoid, etc. Prerequisite, geometry, geometrical drawing, and trigonometry.
- 5. Linear Perspective I. Second year, winter term. Linear perspective is taught as central projection. It comprises the subjects of vanishing points, vanishing traces, measuring points, cylindric perspective and perspectic corrections. The models used in the work in sketching are objects whose forms bear close relationship to geometrical types. The students are led to recognize the facts, relations and principles involved in the apparent form of the object, to note the distribution of light, shadow and reflection on the same, and deduce the general principles which the observation and comparison of these appearances are found to establish. Each student is required to make a number of original crayon and ink sketches during the term.
- 6. Linear Perspective II. Shades and shadows in perspective; perspectives of buildings and ornamental details; rendering in ink; studio methods.
- 7. Rendering in Water-color. Representation, in ink and watercolor washes, of building elevations and their landscape environments.
- 8. Modeling I and II. Modeling in clay and plaster of architectural details, historic ornaments and decorative statuary. Methods of making plaster casts.
- 9 and 10. Color and Design. Two terms. Discussion of the nature and influence of color, its use and abuse, and the principles that underlie good design and consistent, harmonious color combinations. Original designs in construction and decoration as applied to fabrics, dress and articles of common use in the home, that young women may recognize and appreciate that which is beautiful and appropriate, and may become more discriminating as purchasers.
- 11. Home Decoration. A study of design in its application to the home, its plan, furniture, and decorations. Emphasis is laid upon the refining and educating influence of well-chosen and appropriate decoration, the importance of simplicity being urged. Lectures on fine arts and the handicrafts, teaching that the home should show that fine art and industrial art are not to be considered separately. Problems in planning and decorating houses.
 - 12. Architectural Drawing. Six terms. Lettering and inscriptions.
- Study and drawing to scale of standard forms from the different historic styles; analytical study of the Five Orders; drawing of ornamental trusses, tracery windows, wrought-iron grilles, metal cornices, etc.
- 13. History of Architecture. Architectural history is taught by lectures and recitations, fully illustrated by means of the stereopticon, books, photographs and plaster models. The development of the leading historic styles, from the ancient Egyptian through the Greek, Roman, Byzantine, Romanesque, Moorish, Gothic, Renaissance, neo-Greek and Colonial to the modern Romanesque, etc., is treated topically. The aim is to give the student the ability to recognize, use and associate ornamental and structural forms properly.

- 14. Residences. Lectures on location, arrangement, construction, decoration and sanitation of residences; study of modern residence styles; drawing to scale of plans, elevations, sections and details of characteristic residences, involving construction in lumber, brick, stone and concrete.
- 15. Public Buildings. Lectures on planning, construction and decoration of churches, business houses, school buildings, etc. Drawing to scale of characteristic stone and brick buildings in Romanesque and Renaissance.
- 16. Architectural Composition. Six terms. Original work in planning, drawing, lettering, tracing and blue-printing of residences, schoolhouses, churches, town libraries, club-houses, etc. The subjects and their size, cost limit, style, and the character of the building material, are given by the instructor.
- 17. Mural Decoration. Each student is required to make a series of large water-color studies of interior wall-decoration schemes, including original designs for borders, centerpieces, etc.
- 18. Heating and Plumbing. Discussion of the phenomena and laws of heat generation and propagation. Systems of heating by means of air, water, and steam. Modern methods of ventilation. Dry closets; water-supply; plumbing; sewer construction; sewage disposition.
- 19. Trusses. Study of modern methods of iron and steel construction applied to columns, beams, trusses and reenforcements. Prerequisite, graphic statics. Text-books, Kidder's Handbook for Architects and Builders; also, Nos. 97-A and 657-B of the International Text-book Company.
- 20. Specifications. Discussion and preparation of standard specifications for some of the residences and public buildings planned by the student in the classes in composition. Estimates of the materials and labor required in erecting and completing these buildings. Methods of making lump estimates. Discussion of the principles and form of building contracts.
- 21. Landscape Architecture. Discussion and study of the principles of landscape design, location and construction of roads and walks, the disposition of water as a landscape feature, etc. Each student is re-



MAIN DRIVE.

quired to draw and finish in water-color a set of large plates representing his original designs for a home lot, a public square, a campus and a small park.

- 22. Seminary. Critical study of public buildings, such as the Manhattan library, the Riley county court-house, the buildings of the College, etc. Study and discussion of the work of American architects, such as Smithmeyer, Upjohn, and Richardson. Critical study of the buildings of the Carnegie Polytechnic in Pittsburg, Leland Stanford University, etc. Critical study of the competitive designs for St. John's Cathedral in New York and the State University of California.
- 23. Civic Improvement. This study is an extension of the seminary work of the senior year and comprises investigation of government methods of planning and erecting public buildings and municipal methods of planning and constructing public parks and boulevards. The subject is presented by illustrated lectures, supplemented by reading, and study trips to Fort Riley, Topeka, Kansas City, etc.
- 24. Building Law. Study of the legal relations of the architect, the owner and the contractor. Discussion of state laws concerning the erection of public buildings; labor laws; lien laws; city ordinances; building permits; building insurance; contracts and bonds.
- 25. Thesis. In the winter and spring of the senior year the student will prepare a thesis, consisting of a set of original drawings, details and specifications for a public building. This work will be done in the drafting-room of the department and under the supervision of the professor of architecture, who will decide on the cost limit and style of the building and the size and number of plates required.

Students taking the course in architecture are required to devote their summer vacations to practical work in actual building operations.

BACTERIOLOGY.

The subject of bacteriology is presented to the student as a biological science and as a practical factor in every-day life.

The instruction in this department is as follows:

Bacteriology I. Fall or spring term. Required of all students in the third year of the agronomy, animal husbandry, dairy, domestic science, horticulture, poultry, printing and veterinary courses, and all students in the second year of the general science course. A general introductory course, covering the morphological and biological characters, general technique and fundamental principles of applied bacteriology.

Bacteriology II. Winter term. Required of all students in the third year of the animal husbandry and veterinary courses. A study of pathogenic bacteria, especially those related to diseases of animals. Special methods necessary for the diagnosis of such diseases as tuberculosis, anthrax and glanders are considered. Sterilization, disinfection, dissemination of pathogenic bacteria, immunity, serum therapy and other subjects receive careful attention. Must be preceded by bacteriology I.

Bacteriology III. Winter term. Required of all students in the third year of the dairy and poultry courses. Consideration of the bacterial flora of milk, butter, and cheese, infectious diseases conveyed through milk, bacterial contamination of milk from air, water, utensils, etc., abnormal milk bacteria, fermentations in milk, starters, pasteurization, and sterilization. Must be preceded by bacteriology I.

Bacteriology IV. Spring term. Required of all students in the third year of the domestic science course. A general study of bacteria, both harmful and beneficial, in their relation to household economy. The important pathogenic bacteria relative to diseases of man; the trans-

mission of disease through water, milk, and food; quarantine, disinfection, thermal death-point of bacteria, fermentation, and food preservation. Must be preceded by bacteriology I.

Bacteriology V. Spring term. Required of all students in the graduate year of the domestic science course. A continuation of bacteriology IV, with special reference to problems in disinfection, sanitation, hygiene, decomposition, fermentation, and food and drink preservation. Must be preceded by bacteriology I and bacteriology IV.

ELECTIVES.

Bacteriology II, III or IV is open to students of the general science course as elective work. Must be preceded by bacteriology I.

Bacteriology VI. (Dairy.) Laboratory course and reading. Open to graduate students only. Must be preceded by bacteriology I and III. Time to be arranged with the instructor.

Bacteriology VII. (Soil.) Laboratory course and reading. Open to graduate students only. Must be preceded by bacteriology I. Time to be arranged with the instructor.

BACTERIOLOGICAL SEMINARY.

Required of all graduate students taking bacteriology, and open to undergraduates who are interested in research. Discussions of current bacteriological literature and problems under investigation form the basis for the seminary work. One hour every other week, throughout the year.

BOTANY.

The instruction in the botanical department is along three lines:

First, as a Pure Science.—The department aims to give the student training in observation and scientific reasoning, and also the information which he should have as a matter of general knowledge, regardless of his subsequent vocation. Botany is the first natural science to which the student is introduced, and for this reason it is necessary that he receive in this department his elementary training in scientific methods.

Second, as a Science Underlying Agriculture.—It is well recognized that botany is one of the most important of the sciences upon which the practice of agriculture is based, for the reason that botany deals with plant life, and plant life is at the basis of agriculture. Whenever practicable, illustrations and examples in both the elementary and advanced work are chosen with particular reference to their bearing on agriculture.

Third, Technical Botany, including such subjects as are of direct application in agriculture. The training in the special botanical studies of the agriculture and horticulture courses is chiefly of this nature, as will be seen by consulting the outline below.

be seen by consulting the outline below.

For the elementary training offered in this subject, see botany I and II as outlined for the preparatory department.

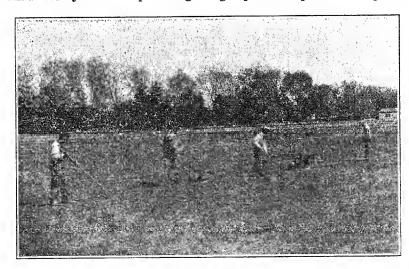
Plant Anatomy. Third year, fall term. This course is designed to give the students in horticulture and agronomy some exact ideas as to just what sort of an organism a plant is; how it wrests its living from the inorganic world; and how it is equipped to make satisfactory terms with its environment. This course emphasizes the truth that it is not nature's way to evolve cells and tissues at random, but rather that they represent the means by which living organisms overcome and make use of the conditions and forces which surround them. It attempts to show how plants arrive at this achievement by the evolution of the different physiological tissue systems from a primitive, undifferentiated embryonic tissue, and how the tissue systems are adapted by their character and relation to each other to carry out the plant's vegetative functions. Text, Plant Anatomy, William Chase Stevens.

Laboratory.—Laboratory work occupies four hours per week throughout the term. It is the purpose of this work to familiarize the student with the plants and tissues studied in class, afford a good foundation for critical discussion and stimulate independent thought and reasoning, which is indeed a significant part of one's education. Detail drawings according to furnished outlines are required. Drawing materials are provided by the student. All necessary reagents, microscopes and other instruments are supplied by the department.

Plant Physiology. Third year, winter term, agricultural and horticultural courses. Since the proper nutrition and growth of the plants which comprise his crop is the chief aim of the agriculturist, the fundamental principles which underlie those plant functions are of cardinal importance to the farmer. In this course an attempt is made to give to the student a working knowledge of the functions and properties of living organisms, in connection with the agencies and forces which influence or imitate them, and an intelligent consideration of the general processes of plant life. To this end, readings, lectures and laboratory work will be given in such topics as the following: Nature and relations of an organism; relations and responses of plants to chemical and mechanical influences; the relation of plants to water, gravitation, light, temperature; the composition of the plant body; movement and exchange of fluids, respiration, fermentation, digestion, nutritive metabolism, growth and reproduction. Text, to be selected.

Laboratory.—Four hours per week, throughout the term. The laboratory work in this course will consist of demonstrations by the instructor and physiological experiments upon living plants by the students themselves. The experiments will be so planned that each student may be able to work out for himself all of the main features in the physiological response of a plant to its environment, in plant nutrition, metabolism and growth. Use will be made of a complete outfit of physiological apparatus and a well-equipped laboratory. Careful notes, with drawings and descriptions of plants and apparatus, will be required of each student.

Plant Pathology I. Third year, spring term. The term is devoted to the study of causes of diseases in economic plants. The study is familiarized by lectures upon the great groups of the parasitic fungi and



Methods of planting.

their chief subsidiary groups. The general morphology of these is discussed successively, and the morphology and physiology of the particular representatives of each selected for laboratory study is given in detail, together with combative and preventive measures. A rich herbarium of types and a constantly growing set of duplicates furnish abundant material for the work, and are supplemented by alcoholic specimens properly killed and fixed, and by prepared slides. Ample literature on the subject of plant diseases is afforded by the library of the department and of the Experiment Station. Prerequisites are courses 1 and 2, or their equivalents in the preparatory department.

Laboratory.—In the laboratory work pathological specimens are examined and the changes induced in plants by fungi and by abnormal physical conditions are studied in detail under the microscope. The object of this course is rather to study the workings of diseases from the standpoint of the host than to become acquainted with the groups of the parasitic fungi, although a sufficient study of the morphology of these

for practical purposes is made in the laboratory.

Plant Breeding. Fourth year, spring term. This course is devoted to the study of the evolution and breeding of plants. The laws of heredity and variation are studied in detail, with especial reference to their application to the improvement of economic plants, and a critical study is made of the principles underlying seed and plant selection and hybridization. The history of the evolution and development of economic plants is taken up in considerable detail, and a critical examination is made of the methods followed and results obtained by investigators in plant-breeding here and abroad. The extended series of experiments now being conducted by the Experiment Station will be used for illustrative purposes. The course is given by lectures, supplemented by laboratory work, and a seminar in plant-breeding, held once a week.

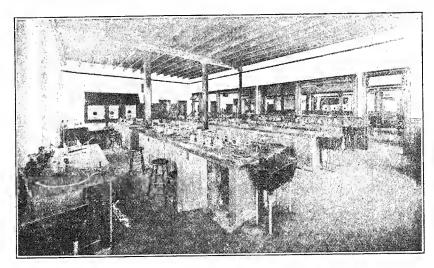
Laboratory.—Laboratory work will involve experiments in seed and plant selection, hybridization, the statistical study of variation, etc.

Plant Pathology II. Graduate year, winter term. This course, designed for the more advanced students in plant pathology, will lay particular emphasis upon the technique of pathological investigations and the taxonomic characters of parasitic fungi. It is the purpose of this course to prepare students for and stimulate them to independent and original work in the study of the diseases of plants. This course will be given by lectures, supplemented by required reading and laboratory and field-work. Lectures five hours per week, laboratory four hours per week.

CHEMISTRY.

All the industries are becoming more and more dependent for their highest success upon intelligent application of the sciences, and the special sciences are making their greatest progress by tracing their phenomena back to the physical and chemical changes that accompany them. A study of chemistry and physics is therefore essential to any understanding of the processes of nature or human industry. In the instruction in chemistry the aim is to insist upon a mastery of the chief concepts of the pure science through the agency of text-book drill, accompanied by demonstrations in the lecture-room, and experimental observations by the student himself in the laboratory. As the course proceeds, illustrations of chemical principles are drawn from the industrial processes of the chemical, agricultural, domestic and other arts, thus impressing the practical nature of the study. The ultimate object of the instruction is to develop in the student the power to form independent judgments upon the manifold problems of daily life in which chemistry plays a part.

Of the studies described below, Nos. 1, 2, and 3, with their accompanying laboratory work, are required in all courses. In addition, Nos. 4 and 8 are required in all agricultural courses and No. 7 in the domestic sci-



A chemical laboratory.

ence and art course. The others are requirements in the graduate year of the several courses or are electives available for any course permitting them. Classes in elective courses requiring lectures and recitations will not be organized for less than three students.

1. Chemistry I. Sophomore year, fall term and first half of winter term. This work is designed to give the student a knowledge of the fundamental principles of elementary chemistry. As all subsequent progress in this science requires a working knowledge of its principal theoretical conceptions and of the rules for naming compounds, the significance of formulas, chemical equations, etc., much attention is given to these as well as to the practical uses of the substances and processes in metallurgy, engineering, agriculture and other arts. The text-book, Newell's Descriptive Chemistry, is supplemented by lectures when necessary, and the subject is amply illustrated by experimental demonstrations. Elementary physics is a prerequisite.

Laboratory.—As far as time permits, the student performs, independently, experiments touching the preparation and properties of the more important inorganic substances. Preference is given to those operations which illustrate important principles, and the student is required as far as possible to study experiments in that light. In this, as in all other laboratory work in chemistry, the objects are to illustrate chemical phenomena and to teach care in manipulation, attentive observation, logical deduction, and discrimination and accuracy in recording results and conclusions. The latter part of this course includes blowpipe analysis of the more important species of minerals, especially those of common occurrence and economic importance in agriculture and engineering. The student is not only required to give the designated amount of time, but at least a minimum amount of work must be satisfactorily performed in order to obtain credit.

2. Chemistry II. Sophomore year, second half of winter term and first half of spring term. A systematic study is made of the simpler examples of the more important classes of organic compounds in their logical chemical relations. Such substances as touch the every-day affairs of life are treated with greater detail. Opportunity is thus afforded to consider the hydrocarbons, alcohols, organic acids, fats, soap, sugars, starch, proteids, and other less known substances. Compounds used for clothing, food, fuel, light, antiseptics, disinfectants, anesthetics, poisons,

medicines, solvents, etc., are included. While the useful organic compounds have special attention given them, the study of others is not excluded when they contribute to an understanding of the systematic re-lations existing among the several classes. Any serious study of the biological sciences, or of the arts connected with them, must require this as a foundation, and a knowledge of the properties of organic compounds finds frequent application in engineering as well. The subject is amply illustrated by experiments in the lecture-room. Text-book, Remsen's Organic Chemistry, in part, accompanied by lectures amplifying certain parts of the subject.

3. Chemistry III. Sophomore year, second half of spring term. this and the accompanying laboratory work, which begins a term earlier, the prime object is to increase the student's knowledge of chemistry as a the prime object is to increase the student's knowledge of chemistry as a whole. The standard methods of analytical chemistry are made the basis of a systematic study of the chemical properties of the most important metals, non-metals, acids, bases, and salts. The teaching of analysis as such is a secondary object, although the student is held to the exact observations and careful reasoning required in ascertaining the composition of single substances and mixtures. The lessons, which are outlined in a special pamphlet, include a review of the more important topics of inorganic chemistry, in which natural occurrence of elements and compounds, industrial chemical processes and analytical reactions are seen to be closely connected. The pamphlet also includes simple treatment of some general chemical laws in accordance with modern views. The exercises are so arranged as to pass from the simple to the more diffiexercises are so arranged as to pass from the simple to the more diffi-cult, and at the same time to facilitate the comparative study of the sev-eral cations and anions. The theories of chemistry receive constant ap-plication, and the effect of the course is to broaden, strengthen and unify the student's ideas of general chemistry, greatly to enlarge his knowledge of chemical facts, and at the same time to fix many of them by their asso-ciation with the reactions made use of in condition by their association with the reactions made use of in analytical processes. Must be preceded by courses 1 and 2.

Laboratory.—Sophomore year, second half of winter term and all of spring term. The regular methods of qua tative analysis serve as a basis for a laboratory study of the chemical properties of substances. At first simple known salts are given the student; later, unknown substances, simple and complex, soluble and insoluble. Laboratory manual, Qualitative Analysis, by W. A. Noyes.

4. Agricultural Chemistry I. Junior year, fall term. This half-term's work is devoted chiefly to the study of the chemistry of soils. Among the subjects treated are: The soil-making rocks and minerals, and the agencies by which soils are formed from them and other materials; minerals used as fertilizers; injurious minerals; methods and limitations of soil analysis; soils of different regions compared; alkali soils and their real mating, recognition of the chemical character of soils and their reclamation; recognition of the chemical character of soils from their native vegetation. Text-book, Soils, by E. W. Hilgard. Prerequisite, chemistry III.

Laboratory I.—Junior year, fall term. This consists of simple quan-Laboratory I.—Junior year, fall term. This consists of simple quantitative exercises leading up to work upon substances of direct agricultural interest. These are so planned as to give as great a variety in training as is possible in the limited time available. Laboratory guide, Quantitative Analysis, by Lincoln and Walton.

Laboratory II.—Junior year, winter term. This is a continuation of quantitative analysis as applied to agricultural products, soils, fertilizers of the service of the service

ers, etc.

5. Agricultural Chemistry II. Graduate year, or elective, spring term. In this course a thorough study is given of the chemical relations of plants to the atmosphere and the soil. The special requirements of different crops and the composition and use of domestic and commercial fertilizers receive ample attention. The work is given by lectures, in part, but "Fertilizers," by E. B. Voorhees, is used as a text also. Prerequisite, agricultural chemistry I.

Laboratory.—Analysis of soils and fertilizers.

6. Dairy Chemistry. Graduate year, or elective, fall term. The application of chemistry to the special problems of dairying is treated in as complete a manner as the time permits. Text-book, Dairy Chemistry, by H. D. Richmond. Prequisite, chemistry II and III.

Laboratory.—Quantitative analysis of feeding-stuffs and dairy products.

- 7. Human Nutrition. Junior year, fall term. This is a course on the chemistry of foods and nutrition, and includes the following topics, with others: Composition of the animal body; composition of foods and methods of investigation employed in their study; the changes that the several classes of foods undergo in cooking and digestion, and the functions that they perform in nutrition; daily food requirements, and the balancing of dietaries; food economy. The Nutrition of Man, by R. H. Chittenden, is used as text-book, but is largely supplemented by a course of lectures. Course 2 and physiology must precede this course.
- 8. Animal Nutrition. Junior year, winter term. This course is designed to provide a sufficient scientific basis for the study of practical stock-feeding, and includes consideration of the following topics, with others: The chemical characteristics of the more important feeding-stuffs and causes of their variation in composition; the chemical changes that feed undergoes in digestion; the tissues that can be built up from the several proximate principles of feeds, and the bodily functions that they can sustain; the requirements of the animal body as modified by its age and condition and the purpose for which it is fed, and modes of calculating rations from feeds of known composition and digestibility. Lectures, and parts I and II of Henry's Feeds and Feeding. Course 2 must precede this.
- 9. Principles of Animal Nutrition. Graduate year, or elective, fall term. This course gives a thorough study of the relations of animals to matter and energy. The methods of research and the results obtained are treated in an extended and scientific manner. Text-book, Principles of Nutrition, by H. P. Armsby. Prerequisite, chemistry II.
- 10 and 11. Inorganic Chemistry I and II. Graduate year, or elective, fall and winter terms. In these courses the student gives thorough study to the facts of chemistry and their interpretation in the light of modern theory. Text-book, General Inorganic Chemistry, by Alexander Smith.

Laboratory.—Quantitative exercises in theoretical and practical chemistry.

12. Organic Chemistry I. Graduate year, or elective, spring term. As careful a study of the aliphatic compounds as the time permits. Text-book, Organic Chemistry, by Holleman.

Laboratory.—Organic preparations in the aliphatic series.

13. Organic Chemistry II. Graduate year, or elective, fall term. The aromatic compounds. Text same as for organic chemistry I.

Laboratory.—Organic preparations in the aromatic series.

14. Physiological Chemistry. Graduate year, or elective, winter term. A study of chemistry in its relations to body tissues, nutritive substances and the physiological processes. Text-book, A Text-book of Physiological Chemistry, by Abderhalden. Students expecting to take this subject are advised to elect inorganic chemistry I and II and organic chemistry I during the senior year, organic chemistry II then following naturally the fall term of the graduate year. Students lacking this preparation, to a greater or less extent, will pursue the subject at a disadvantage.

Laboratory.—A suitable course of laboratory exercises accompanies this study.

15. Quantitative Analysis. This may be taken at any time after completing course 3. After the necessary preliminary training, the student may give special attention to any line of quantitative analysis, such

as that of foods and fodders, dairy products, soils and fertilizers, ores, water, gases, etc. The investigation of special chemical questions is encouraged.

16. Journal Meeting. Once a week, throughout the year, the officers of the department, with the more advanced students and such others as wish to, meet for papers and discussion upon topics representing the progress of chemical science, chiefly as found in the current journals. The preparation of subjects for presentation at these meetings is a part of the required work of graduate students and of those electing advanced courses.

CIVIL ENGINEERING.

In addition to the classroom work in this course, there is a large amount of practice in the field, drafting-rooms and laboratories, the object being thoroughly to fix in the student's mind the fundamental principles of civil engineering, and at the same time give him skill in their application. Many of the engineering subjects in this course are taken in the mechanical engineering department. The description of those subjects will be found under that head.

Of the following subjects, surveying I is required of all young mens in the College. The balance are required of the civil engineers only.

- 1. Surveying I. First year, spring term. Field-work, with instruction and practice in the manipulation and adjustment of the chain, compass, level and transit, and their use in the solution of the simpler problems in surveying. Trigonometry must accompany or precede this course.
- 2. Surveying II. Second year, fall term. A topographical survey of a plot of ground by the method of rectangular coordinates. Preparation required, surveying I.
- 3. Surveying III. Second year, winter term. A continuation of the preceding term's work. Topographical mapping. Preparation required, surveying II.
- 4. Surveying IV. Second year, spring term. City surveying. Topographical surveying by transit and stadia. Use of plane table. Mapping. Preparation required, surveying III.
- 5. Surveying V. Third year, fall term. Underground and hydrographic surveying. Railroad curves. Computation of earthwork. Preparation required, surveying IV. Text-book, Trautwine's Civil Engineer's Pocket Book.
- 6. Geodesy. Third year, spring term. Effect of the earth's curvature on surveying methods. Precise leveling. Triangulation. Preparation required, astronomy and surveying V.
- 7. Surveying VI. Third year, winter term. Field-work to accompany geodesy. Triangulation survey. Observations for azimuth, latitude, longitude, and time. Geodesy must accompany or precede this course.
- 8. Civil Engineering Drawing I. Third year, winter term. Perspective, stereotomy. Preparation required, descriptive geometry.
- 9. Spherical Trigonometry. Third year, winter term. Wentworth's text. Development of formulas, solution of problems, and applications to astronomy.
- 10. Astronomy. Third year, winter term. A brief course in astronomy for engineers, dealing principally with methods of determining latitude, longitude, and azimuth.
- 11. Civil Engineering Drawing II. Third year, spring term. Plotting and computations to accompany surveying VII. Surveying VII must accompany or precede this course.

12. Surveying VII. Third year, spring term. Reconnaissance, pre-liminary survey, and location of a short railroad line. Preparation re-quired, surveying VI.

13. Civil Engineering Drawing III. Fourth year, fall term. A con-

tinuation of the preceding term's work.

14. Civil Engineering Drawing IV. Fourth year, winter term. Working-drawings of trusses laid out in graphic statics in preceding term. Preparation required, graphic statics.

15. Railway and Highway Engineering. Fourth year, spring term. Principles governing the location, construction and maintenance of roads and railroads. The drawing-room practice will consist of the design and proportioning of culverts and waterways and the layout of tracks, yards, etc. Preparation required, civil engineering drawing II, applied mechanics III, and hydraulics I.

16. Municipal Engineering. Graduate year, winter term. Problems of water-supply, drainage, sewerage and general sanitation.

Thesis. Fourth year, spring term, and graduate year, winter and spring terms. Each student in the civil engineering course is required to present, before graduation, a thesis on some subject directly connected with the work of his profession. This thesis is to be a report on an original investigation conducted by the student.

An additional thesis is required of a student completing the graduate year. This may be a continuation of the one presented in the preceding year, and contain the data included in the former, or may be upon a new

year, and contain the data included in the former, or may be upon a new

subject.

DAIRY HUSBANDRY.

The new courses that have recently been adopted offer exceptional opportunities for a well-grounded and complete course in dairy husbandry. These courses should thoroughly prepare and equip the student who intends to return to the farm, run a dairy, take up commercial dairying, fill state and government positions, or to engage in research and instruction work.

DAIRYING.

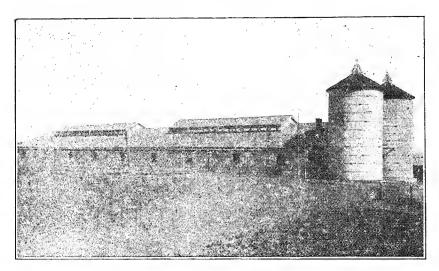
Dairy instruction, as given in the dairy department, can be classified under four heads:

First, Dairying.—As a general study given to veterinary students, and to all of the students taking agricultural courses, covering, as near as time will permit, the fundamental and most important branches of dairy husbandry. Special emphasis is placed upon the economical production of high-class dairy products. Special attention is also given to the composition of and testing of dairy products.

Second, Dairy Production.—This course is designed to meet the needs of the student who intends to make a specialty of dairy farming, considering the raising, feeding and care of improved dairy stock, the manufacture of dairy butter and cheese, the production of cream for wholesale, retail and creamery trade, and wholesale and retail milk, including the production of certified, sanitary, and modified milk.

Third, the Manufacture of Dairy Products .- This course comprises the details involved in the manufacture of butter, cheese and ice-cream, and the management of milk depots and receiving and skimming stations.

Fourth, Advanced Dairying.—This part of the course, taken up mostly in the last year, is intended to supplement the work which has preceded with a more thorough and advanced study of the entire dairy field, with special emphasis being placed upon that portion of the work which will tend to fit the student for special work, such as dairy and creamery inspector, government expert, experiment station investigator and instructor.



Dairy barn and silos.

1. Dairying. Second year, fall term. Breeding, feeding, keeping records and judging dairy cows. Nature and composition of dairy products. The production and handling of milk, cream and butter for home use, retail and commercial purposes.

Laboratory.—Practice in testing milk, cream, skim-milk, buttermilk, whey, butter and cheese for fat. Testing the leading dairy products for adulterations; making moisture determinations of butter; testing accuracy of glassware; operating and making a critical study of the leading makes of separators; practice in pasteurizing milk and cream; aerating and cooling milk and cream; ripening and churning cream; salting, working, printing, scoring, and preparing butter for market.

- 2. Butter Making. Fourth year, fall term. A careful study of the details of the manufacture of butter on the farm, in the dairy, and in the factory. Methods of separating, handling and ripening cream; preparation and use of starters in pasteurized and raw cream; the manufacture of sweet-cream butter; churning, washing, salting and packing butter; keeping complete records of each operation; making salt, curd, fat and moisture determinations of the finished product; judging and scoring the butter at frequent intervals, noting its keeping qualities, and the effects of different methods of manufacture upon its commercial value.
- 3. Cheese Making. Fourth year, winter term. Making cheese on the farm, for home use and for sale. The commercial manufacture of cheese, comprising every detail, from receipt of the milk to the marketing of the finished product.

Laboratory.—The making of cheese with farm equipment; the manufacture of cheese on a commercial scale; keeping complete records of each operation, and noting its influence upon the finished product; and practice is given in testing, judging and scoring cheese.

4. Market Milk and Cream. Fourth year, spring term. Feeding and general care and management of dairy herds. Keeping records of dairy cows; production and marketing of modified, certified and sanitary milk.

Laboratory.—Practice in aerating, cooling, pasteurizing, standardizing and bottling milk and cream for retail and wholesale trade.

5. Dairy Management. Fourth year, spring term.

Laboratory.—Construction of dairy barns, storage barns, silos, milk rooms, dairies, ice-houses, fences, shelters, and the planning and laying out of dairy plants for special purposes.

6. Experimental Dairying. Fifth year, fall term. A critical review of experimental work in dairying, collecting experimental data, and planning experiments.

 ${\it Laboratory}.$ —Performing practical experiments and keeping accurate records of results.

7. Manufacture of Special Dairy Products. Fifth year, winter term. Study of the manufacture of condensed milk, powdered milk, milk-sugar, evaporated milk, fancy creams and ices, soft cheese, cream cheese, canned cheese and butter.

Laboratory.—Laboratory practice in the manufacture of dairy products of special commercial value.

8. Dairy Inspection. Fifth year, spring term. The use of special score-cards for inspecting and scoring dairies, city milk supplies, milk depots, ice-cream plants, and creameries. Outlining state and city ordinances governing the handling and public sale of dairy products.

Laboratory.—A thorough practice in testing for adulterations in dairy products; centrifugal and microscopical examination of milk for filth, bacteria; and leucocytes.

9. Dairy Seminary. Fifth year, spring term. A study of the present and past history of dairying in the United States and foreign countries, tracing the development of the industry, its literature and facilities for education in each country.

Laboratory.—Reading course and critical study of books and papers relating to the dairy industry.

Thesis. A thesis is required at the end of the fourth year, and another thesis at the completion of the fifth or graduate year.

DOMESTIC ART DEPARTMENT.

The object of this course is to give the pupils practical knowledge of all varieties of hand sewing and machine sewing; also a thorough knowledge of the principles of dressmaking, with as much practice in their application as time will allow. It is not only valuable to those who wish to make their own dresses, but also affords an opportunity to those who wish to become practical dressmakers.

wish to become practical dressmakers.

Under a system which is carefully planned and properly carried out, learning to sew may be as educational a process as any other of the industrial arts. It develops the thrifty disposition, encourages habits of neatness, cleanliness, order, management, and industry. Patching, darning and home-made garments are all ways and means of economizing.

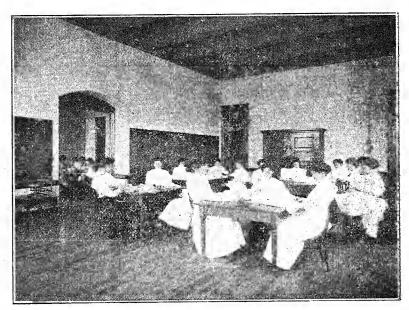
Of the studies described below, all women are required to take Nos. 1, 2 and 3, and those in the domestic science course must take No. 4.

Materials for No. 1 are furnished by the College, the student furnishing her own thread, thimbles, needles, and tape measures. In Nos. 2, 3 and 4 the pupil furnishes her own materials and makes her own garments. Each pupil is required to keep a note-book, in which she records a description of the work accomplished. A written examination is held at the close of each term.

1. Sewing I. First year, fall term. The pupils make a book of models covering the full course of hand sewing, different kinds of stitches, combinations of stitches, seams, hems, tucks, gathering, overhanding, darning, patching, and making buttonholes. Talks on implements used in hand sewing; proper position of body in sewing. Methods of using thread, needles, thimble, and tape measure.



Sewing class.



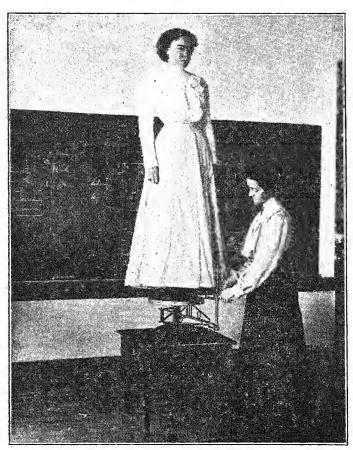
Dressmaking.

2. Sewing II. First year, winter term. Discussion of appropriate materials and trimmings for undergarments. Care and use of sewing-machines. Machine practice. Drafting, cutting and making underskirt and drawers. Materials used: Muslin, long-cloth, cambric, or nainsook.

3. Sewing III. First year, spring term. Drafting, fitting and making dresses without lining. Materials: Madras, gingham, linen, or lawn.

4. Dressmaking. Second year, spring term. Nos. 1, 2 and 3 are prerequisites for this course. The work of this term is devoted to the fundamental principles of dressmaking. Each pupil will be required to take measures, draft, and make a woolen dress. Talks are given on textiles and on colors and their combinations.

5. Advanced Dressmaking. Senior or graduate year, fall term. The study of textiles and costumes. Designing, drafting and making an elaborate street, house or evening dress.



Skirt marker.

6. Tailoring. Senior or graduate year, winter term. Making jackets and coats. The work of this term includes instruction in tailor finish as applied to dresses, jackets and coats.

7. Art Needlework. Senior or graduate year, winter term. This course aims to give the students the necessary stitches in decorative art, and at the same time to cultivate artistic feeling and judgment in the choice of design and color; also, in the decoration of fancy dress waists, collars, undergarments, and household articles.

DOMESTIC SCIENCE.

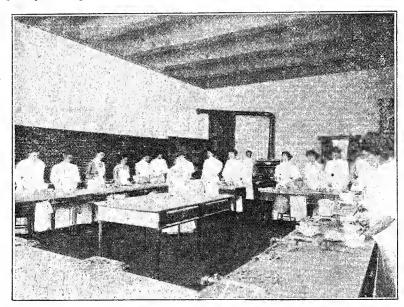
The courses offered by the domestic science department are designed primarily to prepare its students for home-makers, but secondarily to fit them to direct the work in domestic science in public or private schools. Science, applied science and practice are presented in their proper relations, so that the student who completes these courses gains not only a theoretical knowledge of the principles underlying the profession of homemaking, but experience in applying them.

Hygiene and elementary cooking are required of all young women; the remaining courses are required of domestic science students, and may

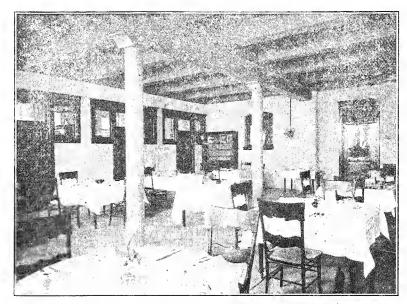
be elected by general science students.

1. Hygiene. First year, fall term. This course consists of one lecture each week, and is to be taken by all young women in the first year of attendance. The lectures cover the subjects of baths, exercise, ventilation of study-rooms, and other topics that directly bear upon the health of a young woman student.

2. Elementary Cookery. First year, winter term. The economic use of fuels; the proper management of stoves and ranges; the care of utensils; the cookery of vegetables, cereals, fruits, milk, eggs, and meat, are taught, together with a few lessons in bread-baking and cake- and pastry-making.



Cooking laboratory.



Dining-room in connection with experimental kitchens.

3. Domestic Science I. Third year, winter term. This course begins with lectures on cooking utensils, ranges, cleaning agents and household waters. A thorough study of all carbohydrate foods, their sources, chemical composition, cookery, digestion and economic value is followed by a similar consideration of fats and proteids. The latter part of the term is devoted to a careful and full study of leavening agents and breads. Instruction is given in the purchase of foods, preparation of menus and in table setting and serving. Course I, physiology, bacteriology I, and human nutrition, are prerequisites. Text-book, Thompson's Practical Dietetics.

Domestic Science Laboratory I. This accompanies domestic science I. The student each day makes various preparations of the foods considered in the lecture-room. Vegetables, vegetable soups, cereals and fruits are all prepared by many methods. Lessons in soap-making illustrate the digestion of fat. Lessons in frying in deep fat illustrate the effect of heat upon fat, and salad lessons the emulsion of fats. Eggs, milk, cheese and meats are prepared separately and in combination. Bread is made by each individual student until each can make a high-grade loaf. Lessons in cakes, pastries and desserts are given, and class dinners are served.

4. Domestic Science II. Third year, spring term. This course is devoted to the study of the economical purchase of foods, the preparation of actual menus, the review of all work done in domestic science I, and to the figuring of actual meals furnished, their nutritive value, nutritive ratio, and exact cost per individual consumer. Prerequisite, domestic science I and domestic science laboratory I.

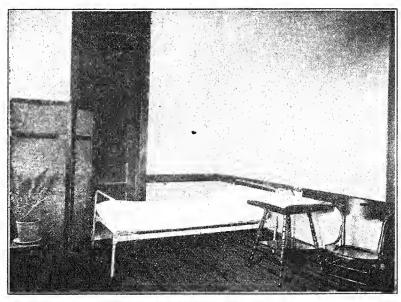
Domestic Science Laboratory II. This course is given in connection with domestic science II. The students prepare menus, purchase materials, and serve actual meals; also receive instruction in the preparation of many difficult and elaborate dishes. Each group of four young women go to housekeeping in a completely furnished small kitchen, and are held

responsible for its care and condition. The intention is to as closely as possible approximate home conditions. Text-book, Boston Cooking School Cook Book.

5. Dietetics. Fourth year, fall term. Dietetics is advanced work along the same general lines as that given in courses 3 and 4. Special stress is laid upon food preservation, adulterations, and preservatives. Instruction is given in the balanced dietary, nutritive ratios, and the agreeable and hygienic combinations of foods. Prerequisites, domestic science I and II. Text-books, Thompson's Practical Dietetics and Conn's Yeasts and Moulds in the Household.

Laboratory.—Practice in canning, preserving and jelly-making is given first, after which the more elaborate dishes are prepared. Menus which have been figured to accord with a definite nutritive ratio and caloric value are weighed out and prepared.

- 6. Home Management. Fourth year, winter term. Place of home and home-maker in the economic world, economical and artistic house-hold furnishing, judicious expenditures of incomes and the keeping of household accounts, marketing, care of the home, the extermination of household pests, removal of stains, are the topics treated. Lectures given and reference work required.
- 7. Home Nursing. Fourth year, spring term. The course covers the furnishing and care of the sick-room, the giving of baths, administration of medicines, record of symptoms, first aid to the injured, and the intelligent use of antiseptics and disinfectants. Abnormal conditions of digestion, assimilation and metabolism, alterations of secretions and destruction of tissue due to germ diseases, are studied, together with the diets adapted to the conditions and needs of the system. Weeks-Shaw Textbook of Home Nursing.
- 8. Therapeutic Cookery. Fourth year, spring term. A laboratory course consisting of the preparation of many and easily digested foods suitable for the sick, and the arrangement of trays for invalids.



Hospital room.

ELECTIVES.

Household Sanitation. Fourth year, fall term. This course includes the study of the conditions which determine the healthfulness of the house, and the application of principles of sanitation to its care. Sanitary construction, ventilation, heating, lighting, plumbing of the house, are subjects studied. Lectures given and reference work required.

Theoretical Domestic Science. Fourth year, winter term. The course consists of outlines and reviews of many of the standard works relating to domestic science subjects.

Food Production. Fourth year, spring term. A study of food materials, the places of their growth, the conditions under which they are matured and marketed and the problems which relate to their storage and transportation. Lectures given and reference work required.

GRADUATE COURSES.

- 9. Domestic Science III. Food study. Fall term. Advanced study of digestion, absorption and metabolism of foods. Schaefer's Physiology, vol. I, is the text-book. Weekly reviews of scientific articles bearing upon domestic science subjects are required.
- 10. Domestic Science IV. Theory of the presentation of domestic science. Winter term. This is a study of laboratories, laboratory equipment, cost of equipment, and cost of supplies. Outlines of lessons are prepared and practice teaching is required of each member of the class.
- 11. Domestic Science V. Bread-making. Spring term. Both class work and laboratory are required. Yeasts are studied under the microscope. The milling of wheat is carefully considered and the mills are visited. All the conditions that may affect the quality of bread are investigated. Bread is prepared by many methods and comparisons made.

ECONOMICS.

The technical training which the state provides for young men and women is intended to be of social rather than individual advantage. It is assumed that the student who has been trained at the expense of the state will increase the productive capacity of the community in which he employs his skill, and thus advantage society as well as himself.

His whole obligation to society, however, is not discharged in this way. He owes something to the state as a citizen. As such he cannot escape the responsibility of contributing his share towards the solution of economic problems which grow out of the complex industrial system of which he is a part. To this end he should be familiar, at least, with the fundamental principles which underlie the production, exchange and distribution of wealth, and which enter so largely into the numerous economic problems that await popular solution.

It is the aim of this department, therefore, to emphasize the application of economic problems to include the industrial conditions. In doing this care is taken to avoid a decreate presentation of any subject. Students are en-

It is the aim of this department, therefore, to emphasize the application of economic principles to industrial conditions. In doing this care is taken to avoid a dogmatic presentation of any subject. Students are encouraged to form habits of investigation and correct thinking before arriving at conclusions. The instruction given is by a combination of the text-book and lecture methods, which offers a means of escape from the narrowness and dogmatism that result from exclusive reliance on a text-book, and from the waste of time in imparting information by lectures only, when such could be acquired more surely and quickly from the printed page. A department library of well-selected books bearing on economics, sociology and statistics is at the disposal of students, and is used for collateral readings, book reviews, and reports.

A term's work in this subject is required in the senior year of all courses, and should be preceded by both civics and American history, except in the animal husbandry and horticulture courses, where economics and American history are concurrent subjects. Text used, Gide's Economics.

ENGLISH LANGUAGE AND LITERATURE.

As its name implies, the work of this department is twofold: On the one hand it deals with the derivation, nature, and especially the effective use of our mother tongue in practical discourse; on the other, it studies the literature of the English-speaking world, as exemplified by the master writers at different periods of our literary development. Thus, the attention of the department is devoted to the study of rhetoric and to

the study of literature.

The aim of the instruction in rhetoric is to give as thorough and systematic training in the principles and practice of English composition as the time devoted to the subject will admit. The most common errors to which inexperienced writers are subject are pointed out and criticized. The elements of style are studied from a text-book, discussed in daily recitations, and applied practically in the writing of paragraphs, themes, and essays. Attention is given to methods of finding, selecting and arranging material and to the application of these methods in the various types of discourse.

In literature, the instruction seeks to give the student an understanding of the nature and characteristics of literature in its leading forms, to develop in him a taste for the best literature and enthusiasm for literary study, to impart to him right methods, to train him in the ability to judge with confidence the literary qualities of any given work, and, through sympathetic study of masterpieces, to give him some knowledge

of the leading authors.

In most of the courses in literature the work is pursued by a combination of lectures, classroom study, and seminary investigation. The literature is read at first hand, and the student is required to do for himself, by way of interpretation, as much as possible. The extensive and intensive methods are combined: wide reading, to obtain literary atmosphere and breadth of view; critical study, to develop accuracy and insight. While historical conditions are not neglected, the weight of emphasis is placed upon the permanent qualities of literature as an artistic expression of life. To know what some one has said about a great author is deemed to be of less importance than to know what a great author has said for himself.

Students who present acceptable evidence of having satisfactorily completed the studies now generally prescribed for admission to American colleges and universities, or the equivalents of those studies, including a practical knowledge of grammar, spelling, composition, and elementary rhetoric, may receive credit for the English studies through the first year.

rhetoric, may receive credit for the English studies through the first year. Any of these credits may be revoked whenever a student shows himself deficient in any study involved. The masterpieces prescribed are divided into two groups—one for intelligent reading and the other for careful study. The lists for the next two years are as follows:

I. FOR READING: (1) Shakspere—As You Like It, Henry V, Julius Cæsar, Merchant of Venice, Twelfth Night. (2) Bacon—Essays; Bunyan—Pilgrim's Progress; Addison—Sir Roger de Coverly Papers; Franklin—Autobiography. (3) Chaucer—Prologue; Spenser—Færie Queen; Pope—Rape of the Lock; Goldsmith—The Deserted Village. (4) Goldsmith—The Vicar of Wakefield; Scott—Ivanhoe; Hawthorne—The House of Seven Gables; Thackeray—Henry Esmond; Mrs. Gaskell—Cranford; Dickens—A Tale of Two Cities; Eliot—Silas Marner; Blackmore—Lorna Doone. (5) Irving—Sketch Book; Lamb—Essays of Elia; De Quincey—Joan of Arc and The English Mail Coach; Carlyle—Heroes and Hero Worship; Emerson—Selected Essays; Ruskin—Sesame and Lilies. (6) Coleridge—The Ancient Mariner; Scott—The Lady of the Lake; Byron—Mazeppa and The Prisoner of Chillon; Palgrave—Book IV of The Golden Treasury; Macaulay—Lays of Ancient Rome; Poe—poems; of The Golden Treasury; Macaulay—Lays of Ancient Rome; Poe—poems; Lowell—The Vision of Sir Launfal; Arnold—Sohrab and Rustum; Longfellow—The Courtship of Miles Standish; Tennyson—Idylls of the King. II. For Careful Study: Shakspere—Macbeth; Milton—Minor

Poems; Burke—Speech on Conciliation with America, or Washington—Farewell Address, and Webster—First Bunker Hill Oration; Macaulay

Life of Johnson, or Carlyle—Essay on Burns.

The examination for credit in English readings will usually consist of a paragraph or two on each of several topics drawn from group I or from the list given on page 96 of the catalogue, under the heading "English Readings." Ten of the works mentioned in list I above will be chosen for this part of the examination—one or two works from each of the six groups in the list. The treatment of the topics chevil shows of the six groups in the list. The treatment of the topics should show a general knowledge of the books read, and especially should reveal the candidate's power of clear and accurate expression.

For credit in English classics the examination will be upon the subjectmatter, form, and structure, and presupposes a thorough study of the books in group II or in course I below. Attention is called to the fact that candidates are thus left free to offer for credit either the books mentioned in the lists named above or to substitute others of equal

Each applicant for admission is expected to present from his instructor a detailed statement of the books read, the time covered in any course, the grades attained, and any exercise book he may have containing compositions or other written work done in connection with his

studies in English.

All candidates for admission will be required to give satisfactory evidence that they know how to spell, punctuate and capitalize properly, that they understand the essentials of grammar, and that they have a practical knowledge of the elements of composition. Whatever credits in preparatory or freshman English shall be given will be determined partly by such evidence and partly by the examinations described above. The aim will be to assign each student to that study which he is prepared to pursue with most profit.

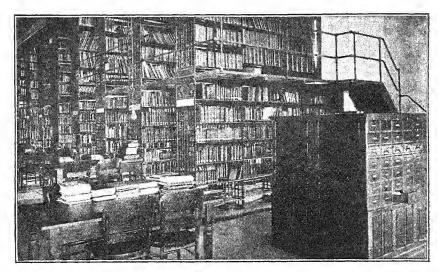
All applications for credit in English should be presented at the be-

ginning of the first term of attendance.
Of the studies described below, Nos. 1, 2, 3 and 4 are required in all courses; No. 5 is required in all but the domestic science and art course, the printing course and the general science course; Nos. 6 and 7 are required in the printing, the domestic science and art and the general science courses; No. 8 is an elective in all courses that have electives.

1. English Classics. First year, fall term. A careful study is made of a number of standard authors of first-class interest and easy style. As far as possible, the selections are read and discussed in class. Character sketches, paraphrases, abstracts, outlines, and analyses, as well as biographical sketches of the authors, are regularly required. The students are given continual opportunity of studying and rendering the best thought in the best forms, and are, at the same time, encouraged to develop their own thought and powers of expression. The course aims to afford practice in composition as well as to give knowledge of the selections read.

Class Readings.—Shakspere's Merchant of Venice; Scott's The Lady of the Lake; Shakspere's Macbeth; Bunyan's The Pilgrim's Progress; Milton's Shorter Poems; Burke's Speech on Conciliation with America.

- 2. Advanced Composition. First year, winter term. The work in this course is a continuation and extension of that begun in composition in the preparatory course. Especial attention is paid to precision in the choice of words, to correctness in the various forms of sentence structure, and to unity and coherence in both the sentence and paragraph. Constant practice is given in writing paragraphs and brief themes on familiar topics. Practice is also given in word analysis.
- 3. Rhetoric I. First year, spring term. A continuation and extension of course 2. Further practice is given in paragraph writing. Description and narration are studied as distinct types of discourse, with constant practice in making outlines and writing themes illustrative of these types. So far as possible the student is trained in the habit of criticizing his own work.



A corner in the library.

- 4. Rhetoric II. Third year. Study of style and invention. Rhetorical analysis of masterpieces of the various types and discourse. Lectures and discussions on oratorical composition. Practice in making and criticizing plans for arguments and orations. Essays in exposition, argumentation and persuasion, and briefs for debates. Members of the Junior class who have credit for the preceding courses or who are graduates of "accredited high schools" with a four-year course may be admitted to this course.
- 5. English Literature. Fourth year. A brief review of the rise and development of English literature, with library study of periods and typical authors. Lectures: The nature of literature; the nature of poetry; linguistic and race contributions to the literature; the great literary periods. Class study, reports, the study of masterpieces. Prerequisite, course 4.
- 6. English Literature I. Fourth year. An outline of the history of the language and literature. Dissertations, both oral and written, on periods and types of literature, on representative writers, and significant movements. Lectures: What is literature? What is poetry? The nature of the drama; the plays of Shakspere; the elements of literary criticism; the beginnings of English fiction; the age of Scott, Burns, and Wordsworth; Tennyson and his age. Members of the class report the lectures and apply principles in the actual study of suitable selections. Extensive study of such writers as Shakspere and Thackeray out of class, and intensive study of somewhat difficult poetical selections in class, with reports and informal discussions. Prerequisite. course 4.
- 7. English Literature II. Continuation of course 6. The plays of Shakspere by the seminary method; reports and discussions; principles of Shaksperian criticism; linguistic elements and tendencies of the low-land Scotch, with illustrations from the poetry of Burns. Critical study of typical productions of such writers as Shelley, Burns, Thackeray, Tennyson, Browning. Principles of Browning criticism. Must be preceded by course 6.

ELECTIVE.

8. American Literature. Open to students in all courses where electives are offered. A rapid outline and survey of the rise and development of American authorship from colonial times to our own day. Study of

the lives of representative men of letters and of their leading works, so far as time will permit. The transcendental movement and the Brook farm experiment. Seminary study of some of the great novels, essays, speeches and longer poems. Critical interpretation of some of the most affective poems in class. Must be preceded by course 4

difficult poems in class. Must be preceded by course 4.

In all the courses in literature it is the aim to arouse and quicken in the students a genuine liking for good literature, to establish a standard by which they may judge intelligently and confidently whether any given production is properly called literature, and to give them enough of a taste of good writings to create in them an appetite for more.

ELECTRICAL ENGINEERING.

Instruction in the course is given by text-book, lectures and laboratory work. The classroom work is carefully illustrated by means of lecture-table apparatus and the projection lantern. The course is designed to provide the necessary preparation for young men who desire to engage in the practical work of electrical engineering.

The course also gives an excellent preparation for men who desire to take up the work of the central station as managers, superintendents, or

as consulting engineers.

1. Theory of Electricity. Third year, spring term. This course follows and extends the work given in physics IV (electricity). The following are the principal subjects treated: Theory of electrical measurements, induction, hysteresis, capacity, elementary principles of the generator and motor. The work given in this course is fundamental to the more advanced work of the fourth and graduate years. It is intended to give facility in precise measurements and electrical connections. Textbook, Elementary Treatise on Electricity and Magnetism, Foster and Porter, founded on Joubert's Treatise. Prerequisites, integral calculus, physics IV.

Electrical Laboratory.—It is the purpose of the laboratory course to continue the work of the classroom in the application of the principles and methods developed, the experiments being arranged to follow closely the theoretical development of the subject. The experiments include the measurement of current, potential, resistance, capacity, hysteresis, cabletesting, calibration of instruments, photometric tests of arc and incandescent lamps, use of Carey-Foster bridge, battery tests, etc. Especial emphasis is laid on curve-drawing and the interpretation of laboratory results. A number of reference-books are used in this course.

- 2. Direct-current Machines I. Third year, spring term. This is essentially a laboratory course and is a continuation of course I. It includes a thorough study of the elementary principles of direct-current machinery, involving methods of connecting up the different types of machines, starting-boxes, speed-controllers, circuit-breakers and the determination of the simpler characteristic curves. This course must accompany or follow theory of electricity.
- 3. Direct-current Machines II. Fourth year, fall term. A continuation of course 2, including a detailed study of the principles of direct-current machinery, laws of the magnetic circuit, a careful study of efficiency, regulation and characteristics of the different types of machines, involving proper management, care and installation. Text-book, Elements of Electrical Engineering, Direct Currents, Franklin and Estey. Prerequisites, direct-current machines I.

Dynamo Laboratory.—A series of experiments is outlined and given to the student as a guide to obtain precise results. The experiments include the determination of generator and motor efficiency, resistance measurements, potential and current curves, etc. Special attention is given to the interpretation of curves and data.

4. Electrical Instruments, and Calibration. Fourth year, fall term. The work of this course is designed to familiarize the student with the different types of measuring instruments and their application to electrical engineering testing. The necessary care in handling and connecting up the different measuring instruments is given special consideration.

Standardizing Laboratory.—It is the purpose of this laboratory course to give the necessary practice in calibrating the different measuring instruments with primary and secondary standards of measurements, and to study the adaptation of the different instruments for special tests, etc.

Prerequisite, theory of electricity.

5. Alternating-current Machinery I. Fourth year, winter term. Theory and application of single-phase and polyphase alternating currents; the production of alternating electromotive force; study of impedance, capacity, inductance; theory of transformers; methods for testing alternating-current machinery; measurement of power, etc. Prerequisite, direct-current machines II. Text-book, Elements of Electrical Engineering, Alternating Current, Franklin and Estey.

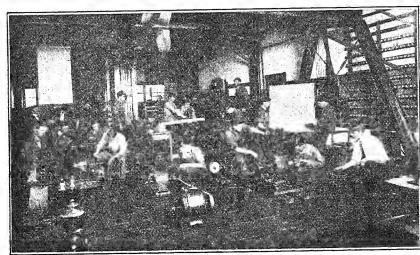
Dynamo Laboratory.—Attention is given to the work of testing alternators, transformers, induction motors, alternating-current arc-lamps,

and accessory apparatus.

6. Direct-current Machine Design I. Fourth year, winter term. In this course each student is required to make the necessary calculations and working-drawings of such direct-current electrical apparatus as may be assigned to him. The work is based upon a course of lectures. Prerequisites, direct-current machinery I and II.

7. Alternating-current Machinery II. Fourth year, spring term. This course is a continuation of alternating-current machines I. It includes a study of the theory of the synchronous motor, synchronous converter, induction motor, and the properties of alternating-current circuits, including resonance, protecting devices, etc. The Vector method of solving alternating-current problems is demonstrated and used throughout the course.

Dynamo Laboratory.—The laboratory is well equipped with the various types of machines, such as alternators, induction motors, synchronous motors, synchronous converters, transformers, etc. A detailed



Electrical engineering.

study is made of the operation and efficiencies of the different types of machines. Each student is expected to familiarize himself with the method of conducting the experiment previous to his work in the laboratory. A detailed report and discussion of the laboratory experiment is required, showing the connections used and the results obtained.

- 8. Alternating-current Machine Design. Fourth year, spring term. This work embraces the elementary principles underlying the design of alternating-current apparatus. Each student makes a complete design of some piece of alternating-current apparatus or switchboard.
- 9. Power Transmission and Electrical Installation. Fourth year, spring term. The work in this course is based on Bell's Power Transmission, supplemented by lectures and inspection visits. Station design, methods of power transmission, systems of distribution, station management and the installation of machinery are discussed. Text-book, Bell's Power Transmission.

Thesis. A graduating thesis is required on a subject requiring a knowledge of engineering, and approved by the head of the department.

GRADUATE YEAR.

The graduate year is open to students who have completed the work of the four-year course in electrical engineering, or who are otherwise properly qualified. This course provides one year's systematic work leading to a bachelor's degree in electrical engineering, and offers opportunity to specialize in several related lines of electrical engineering.

Alternating-current Machines III. Fall term. This subject treats advanced work in polyphase machinery and apparatus and polyphase transmission lines.

Telephony. Fall term. This course is intended to be an introduction to telephone engineering. After a brief review of the principles of sound and of alternating-current phenomena involved in telephone practice, a critical study is made of telephone apparatus and circuits with reference to their adaptation to various kinds of telephone service. This is followed by a study of the design and maintenance of telephone lines and central-office apparatus, central-office methods, selection of apparatus and methods of handling telephone traffic. Text-book, Abbot's Telephony.

Laboratory.—In so far as is practicable, the laboratory work will follow closely the discussions in the classroom. Numerous pieces of substation and central-office apparatus will be assembled, tested and operated. Methods of locating telephone troubles are given special attention.

Electric Traction. Winter term. This course is given by lectures and reference to standard texts and current literature bearing on the subject. It includes a study of railway motors, line construction, tractive effort, train performance, controllers, etc. Inspection visits are made during the course.

Station Design. Winter term. Drawings and specifications for a power station in its relation to light and power distribution. A study is made of the equipment of a modern power plant. Each student is assigned a station, the design of which shall provide for certain requirements. The student is thus made familiar with the conditions that affect station design.

Electric Lighting. Spring term. This course is designed to familiarize the student with the subject of power distribution for lighting. Beginning with the power station, the subject is treated in relation to the central-station equipment; lines, transformers, illumination, etc.

An elective is provided for each term. This may be a modern lan-

An elective is provided for each term. This may be a modern language, subjects selected from the engineering course, or other groups of electives offered.

EQUIPMENT.

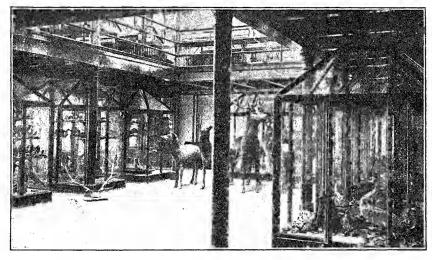
The electrical laboratory for the work of the third year is well provided with standard instruments of measurement, including standards of resistance, self-induction, capacity, etc. A complete line of standard makes of ammeters, voltmeters, wattmeters and galvanometers are also provided. The different laboratories of the department are supplied with electric current from the following sources: 120-volt storage-battery circuit, 110-volt direct-current circuit, 110-volt alternating-current circuit, 220-volt direct-current circuit. Voltages up to 60,000 can be produced in the dynamo laboratory for testing purposes.

The dynamo laboratory is provided with a number of standard commercial machines, among them a 30 k. w. 2300-volt polyphase alternatingcurrent generator, a 15 k. w. 125-volt alternating-current polyphase generator, a 7½ k. w. synchronous converter, single- and three-phase induction motors, a 5½ h. p. phase-wound induction motor, a 20 h. p. auxiliary pole 220-volt direct-current motor, a 26 h. p. 220-volt direct-current motor, a 15 h. p. 220-volt direct-current motor, a 15 k. w. 125-volt generator, a 4½ k. w. 125-volt direct-current generator, a Wood arc machine, a 60-cell 160-ampere-hour storage-battery, current transformers, arc-lamps, constant potential transformers, 20,000 and 60,000-volt testing transformers, marble and slate switchboards, a Tirrell regulator, speed controllers, a full line of ammeters, voltmeters, wattmeters, etc., for testing purposes.

ENTOMOLOGY, ZOOLOGY AND GEOLOGY.

Both for general culture and for preparation to become a specialist in agricultural lines, the need of a knowledge of animal life and of an acquaintance with the meaning of the great earth features is obvious. The fundamental facts of zoology not only serve to broaden the student's outlock, but underlie the special work on animal life peculiar to his course, while those of geology likewise awaken him to a knowledge of things about him and at the same time form a basis for his study of soils and minerals. Insects have shown themselves so well able to reap the fruits of man's labor that, to the equipment of a student in agricultural lines or domestic science, the study of these small but important friends and foes has become necessary. The study of insects is also well fitted to give that training in close observation and discrimination so useful in any walk of life.

- 1. Zoology I. (Invertebrate.) This course will be given fall, winter, and spring. This is a study of the structure, functions and ecology of the types of invertebrate animals, with due attention to the questions of descent and systematic position. The class work will consist of five recitations per week for one term, based upon a suitable text-book, supplemented by facts derived from laboratory study. The practical exercises will consist of four hours' study per week of the structure and physiology of the most significant types. Text-book is T. W. Galloway's First Course in Zoölogy. Laboratory manual is Theo. H. Scheffer's Laboratory Manual of Zoölogy.
- 2. Zoology II. (Vertebrate.) This will be given the winter term. This is a study of the structure, functions and ecology of the more important types of vertebrate animals, also with due attention to the questions of descent and systematic position. The class work consists of two and three recitations in alternating weeks, based upon a suitable text, supplemented by facts derived from laboratory study. The practical exercises consist of four hours per week devoted to the first-hand study of structure and functions of the most significant types. Text-book is Parker and Haswell's Text-book of Zoölogy, vol. II. Laboratory manual is the same as for course 1. Course 1, or its equivalent, is prerequisite.



Museum.

3. Embryology. This course will be given the winter term. This is a study (1) of the changes of the reproductive cells prior to fertilization, giving attention to the cell elements as possible bearers of hereditary characters; (2) of the embryonic development of the vertebrate animal as typified in the chick and some mammalian type. The class work will consist of five recitations per week, based upon a suitable text, supplemented by facts derived from laboratory work. The practical exercises will consist of a close study of the reproductive cells and typical vertebrate development. Text-book to be determined later. Courses 1 and 2, or their equivalents, are prerequisite.

4. Geology. Given fall and spring terms. This is an elementary study of the dynamic, structural and historical phases of the earth and primitive life, with special attention given to the first two. This includes classroom work, with occasional field trips, and consists of five recitations per week, based upon a suitable text, and abundantly illustrated with museum material. Text-book is Le Conte's Elements of Geology.

5. Entomology I. (General.) This course is given fall, winter, and spring terms. This is a study of general structure and physiology of insect life, with especial attention to classification, to the life-economy and remedial measures for the great insect pests. The class work consists of five recitations per week, based upon a suitable text, supplemented by facts derived from laboratory work, and abundantly illustrated by pictures and museum material. The laboratory work will consist of four hours per week study of elementary anatomy and physiology of insect life, and of classification to families of a set of insects representing the important orders. Text-book is Comstock's Manual for the Study of Insects. Course 1, or its equivalent, is prerequisite.

6. Entomology II. (Economic.) Given fall term. This is a study of important injurious insects from the point of view of the investigator, and is intended not only to bring the student into direct contact with the forms themselves but also to familiarize him with economic literature. This course will consist of two and three recitations per week, alternating, and four hours a week in the laboratory. Courses 1 and 5, or their equivalent, are prerequisite.

- 7. Entomology III. (Systematic.) Given fall and spring terms. This is wholly a laboratory course, consisting of four hours per week for one term. It is arranged to familiarize the student with common methods of insect classification, to teach him readiness in the use of literature, and to introduce him to a more extended systematic study of a chosen group of insects. The student will be expected to make a collection for himself. Text-books are Comstock's Manual for the study of insects and special papers. Courses 1 and 5, or their equivalents, are prerequisite.
- 8. Entomology IV. (Histology of insects.) Given winter term. This is a study of the cell-structure of the tissues composing the insect body. It is purely a laboratory course, and will occupy four hours per week for one term. Courses 1, 5, 6 and 7, or their equivalents, are prerequisite.
- 9. Entomology V. This is given at time to be arranged. This is a study of gross structure, physiology and development of insects. It will consist of alternately two and three recitations per week for one term, based upon a suitable text, and supplemented by facts derived from laboratory study. The practical exercises will consist of four hours per week spent in the dissection of insect types and a close study of embryological development. Text-book to be selected. Courses 1, 5, 6, 7 and 8, or their equivalents, are prerequisite.
- 10. Entomology VI. Given at time to be arranged. This course consists of an independent study of some definite problem in insect life. Courses 1, 5, 6, 7, 8 and 9, or their equivalents, are prerequisite.
- 11. Geology II. This course will be given during the fall term. It will consist of a study of the structural and dynamic phases of geology and of the mineralogical composition and the physical properties of rocks important to the engineer. The class work will consist of five recitations per week, based upon suitable texts. The practical exercises will include a first-hand study of the most important rocks. The geological side will be given by this department and the petrographic by the department of chemistry. This course is intended for civil engineers only.

GERMAN.

In whatever line the modern student turns his energies a practical knowledge of German is very useful, often indispensable. In literature, the arts, and the sciences, much of the newest and best work appears in German, so that he who would keep abreast of the times is forced to acquire at least the rudiments of that language. It is planned to have the work in this department as practical as possible, without, however, excluding the growth in the pupils of a love for literature. The tendency duding the growth in the pupils of a love for literature. The tendency toward introducing German classics into second- or even first-year courses is becoming too frequent; students who have "mastered" Faust are too often unable to make the most commonplace remarks in German or to read current German literature fluently.

The courses should be taken in the order given here. In exceptional cases, with the consent of the instructor, students may be assigned to any course after having completed the first three. Courses I, II and III are required in the undergraduate domestic science and art and general science courses, and in the graduate agronomy, animal husbandry, horticulture, mechanical, electrical and civil engineering, architecture and printing courses: IV is required in the domestic state and art course and elective in the general science course; V and VI are elective in the domestic science and art and general science courses, and VII is elective

in the domestic science and art course.

1. German I. Second year, fall or winter term. After two recitations given to learning the sounds of the German letters, the pupil at once begins reading. Vocabularies are learned from the start. Grammar is learned gradually, with the reading lessons, in such a way as not to discourage the pupil. Oral and written work and simple conversational exercises begin with the first reading lesson. The present, perfect, preterit (past) and pluperfect (past-perfect) tenses of the indicative mood, active voice, are studied, as are also the inflections of the various kinds of pronouns and declensions of strong, weak and mixed nouns and adjectives. Frequent reviews are taken to enable the student to digest the facts presented. The abundant conversational and written work taken up serves the same end. Text, Becker's Elements of German (first twenty-six lessons).

- 2. German II. Second year, winter or spring term. Pupils are drilled on grammatical points already gone over in German I. The remainder of the more important points of grammar are studied, the remaining tones of the verb, both active and passive, reflexive verbs, modal auxiliaries, comparison of adjectives, etc. The general plan of the work is the same as in the preceding term. Essential facts of grammar are insisted upon, but German is taught as a living language. Conversations and written exercises are frequent. Text, Becker's Elements of German (completed).
- 3. German III. Second year, spring term. More stress is laid on translations into good idiomatic English than heretofore, and the passages read are of increased length. There is oral work on each exercise read, and occasional translations into German. Such selections are read as will give something of an insight into German manners and customs. A few of the most popular songs are studied. Some of the chief treasures of German mythology and saga are taken up, as well as extracts from German history. Whenever a tendency to drag is noticed, one of the anecdotes given in the appendix will be read. Text, Müller and Wenckebach's Glück Auf.
- 4. German IV. Third year, fall or winter term. Reading of recent comedies of considerable literary merit, up-to-date one-act plays, which are lively, real, and full of a clean sort of fun. Three or more of the following are read, and conversational exercises are based on them; Julius Rosen's Ein Knopf, Gustav von Moser's Ein amerikanisches Duell, Hugo Müller's Im Wartesalon erster Klasse, and Emil Pohl's Die Schulreiterin. Text, Manley's and Allen's Four German Comedies.
- 5. German V. Third year, winter term. Conversation and composition course. Practice in the use of every-day German. Text, Kron's German Daily Life.
- 6. German VI. Third year, spring term. Continuation of course V.
- 7. German VII. Third or fourth year, spring term. A study of several classics.

HISTORY AND CIVICS.

Training for citizenship is a constant purpose of the work in the department of history and civics. Though not many courses are offered, yet it is believed that the very best from the whole field have been selected, and that they are successfully accomplishing the desired results. It is to be noted that each student, before taking up the work here outlined, is required to have completed the work in ancient, medieval and modern European history, as well as the preparatory United States history, as outlined in this catalogue under the title "Preparatory Department."

The department of history and civics offers three courses between the second term of the junior year and the second term of the senior year, inclusive, as follows: English history is required in the printing, general science and domestic science and art courses; American history is required in all courses, and must be preceded by the course in civics, which is required in all courses.

- 1. English History. Junior year, winter or spring term. This course traces the story of England's wonderfully interesting growth from the Britain of the earliest times up to the British empire of to-day. Emphasis is laid on the political and constitutional development, but the industrial and social elements are not overlooked. One of the especially interesting features of this course is the study of England's institutions and government as her colonial empire emerges, and the conditions under which the United States of America becomes independent of England. This is primarily a text-book course, with Coman and Kendall as the text; but supplementary reading is required, especially from Green's Short History of the English People. Lectures are given on contemporary continental institutions, movements and conditions, as far as the limited time will permit.
- 2. Civics. Junior year, winter or spring term, or senior year, fall term. This course is introduced by a very brief study of government in general and of our colonial governments, followed by a more careful study of the articles of confederation and the adoption of the constitution, in so far as these seem essential to a clear understanding of our present government. The work of the term is chiefly devoted to a careful study of our national constitution and of the actual government under that instrument. Constant comparison is made with our own state government. Current events and incidents from history are used to illustrate the various principles until the every-day affairs of our government are made clear, practical and familiar. Comparison with other governments, especially with that of England, is made whenever this seems helpful. Selected cases from the United States supreme court reports are studied. Text-book, Hinsdale's American Government. References: Cooley's Principles of Constitutional Law, Boyd's Cases on Constitutional Law, Bryce's American Commonwealth, Hart's Actual Government, the national and state statutes, etc. A civics guide-book of questions and references, prepared by the department, is used by each student as an aid to the greater efficiency of the work in this course. Whenever possible this course should be preceded by course 1.
- 3. American History. Junior year, spring term, or senior year, fall or winter term. This is an advanced course in the history of America, especially from 1760 to 1860. This course is introduced by a thorough study of those causes and conditions that led to the war of American independence. The treaty of 1783, the governmental and political conditions during the confederation period, the convention of 1787 and the struggle for the adoption of the new constitution, are next carefully examined; but the major part of this course is devoted to the period under the constitution. The brevity of the course requires judicious selection of the points to be emphasized, and the following lines of our national history are especially studied: The establishment of the nation and the organization and functions of the various departments of its government; the important presidential elections; Hamilton's financial measures, taxation, banks, internal improvements; history of political parties, their issues and their leaders; foreign relations and their connecting links between Europe and America, as in the Monroe doctrine; the slavery question compromises, the laws and the constitution; nullification and secession throughout our history; annexation and government of territories; national boundaries; the growth and development of the West, with a study of its influence on our national character and history; the early Kansas struggle; civil war, reconstruction, and the new nation. Since this course so largely involves a study of the practical application of our constitution in operation, it must be preceded by the course in civics. Channing's Student's History of the United States and Elson's History of the United States are used as text-books; but this is primarily a library course, and each student uses an American history note-book of topics and references, prepared by the department, as an aid to larger and more thorough work in the term devoted to this subject. Prerequisite, course 2.

HORTICULTURE AND FORESTRY.

1. Horticulture. Second year, winter term. The work of this term presents the principles of the art, introducing the facts underlying the methods of general practice in nursery, orchard and garden work. The text-book, Goff's Principles of Plant Culture, is supplemented by lectures which are intended to adapt the general principles to the particular conditions which the student is likely to meet.

Laboratory.—For students of the agricultural courses, this work consists of practice in nursery, garden and orchard work, including setting grafts and cuttings, transplanting both small and large trees, spring pruning, construction and care of hotbeds and cold-frames, testing and planting seeds, preparation of garden soils, use of garden tools, making and application of spray mixtures, and the use of spray machinery.

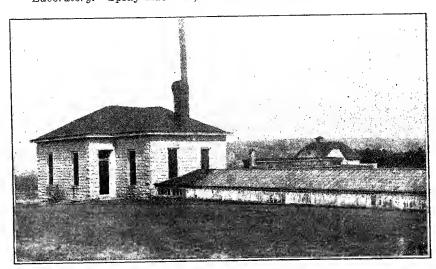
Laboratory for students of the domestic science course consists of the work of propagating, potting and caring for window and greenhouse plants, sowing of seed and transplanting hardy plants. The student is required to become reasonably familiar with the various window and greenhouse plants and to become acquainted with the best species for outdoor gardening, including planning and planting beds and borders.

2. Pomology I. Senior year, fall term. The work of this year comprises a careful study of the classification of fruits, a systematic study of varieties, the means of identification, their variation in plant and fruit under different conditions of soil and culture, and their botany and history. Whenever is more account and their botany and history. tory. Waugh's Fomology is used as a text, and work with fruits is made a part of the course.

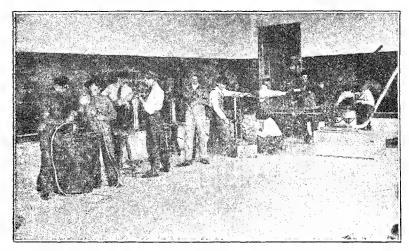
Laboratory.—Careful study and detailed descriptions are made of numerous varieties of grapes, plums, pears, apples, and persimmons. Observations are taken and descriptions made of the trees in their development from nursery to bearing orchards.

3. Fruit-growing. Senior year, winter term. A study of the soil conditions and soil fertility in relation to fruit-growing. Influence of exposure and windbreaks, methods of planting, influence of cultivation and cover crops. Thinning. Picking and packing, storing and marketing. Text, Bailey's Principles of Fruit-growing. Lectures and references.

Laboratory.—Spray machines, materials and mixtures.



Propagating houses.



Spraying machines.

4. Vegetable-gardening. One-half term. Senior year, spring term. The work of this term is devoted to a study of methods of field operations, including use of fertilizers, seed selection, means of securing sanitary conditions, and a brief study of varieties. Text-book, Bailey's Printers ciples of Vegetable-gardening.

Laboratory.—The student is given practice in seed testing, seed sowing, use of garden tools, mixing fertilizers, construction of hotbeds and

cold-frames, transplanting and preparation for market.

5. Landscape-gardening. One-half term. Senior year, spring term. The principles of this art are studied in relation to their application to the planning and planting of home grounds, streets, parks and cemeteries. The value of various trees, shrubs, annual and perennial herbaceous plants for securing desired effects taken up in detail, with special reference to their use under differing climatic and soil conditions.

Laboratory.—Plans for home grounds of various sizes, school grounds, cemeteries and public parks.

GRADUATE.

6. Pomology 11. A study of methods of packing, marketing, transportation and storage. Effects of storage upon varieties comprises the work of the first half-term. In the second half-term a study of the literature of pomology is begun.

Laboratory.—A study of the citrus fruits and commercial varieties of tropical and subtropical varieties.

- 7. Fruit-growing II. This term's work takes up the history and development of the small fruits, their care and culture; effects of fertilizers and irrigation; methods of pruning and training bush fruits; planting for pollination and effects of cross-pollination.
- 8. Landscape=gardening II. An acquaintance with the literature of the subject is formed during this term, and methods of making detailed plans and estimates for landscape problems are taught. The study of species of trees and shrubs, their uses and combinations, is continued.

Laboratory.—Consists of detailed plans for lawns, parks, cemeteries

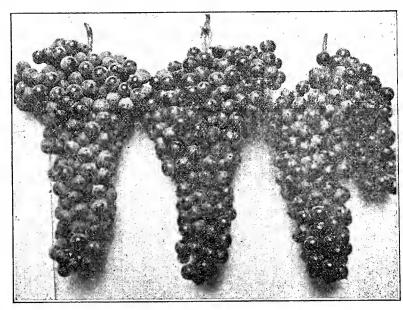
and grounds of public buildings.

9. Forestry. One term. Text-book, Fernow's Economics of Forestry. During this term the economic and esthetic importance and value of forests, the forest as a source of lumber, posts, poles, ties, resin and turpentine, is emphasized and studied. The forest as a condition; that is, a factor that influences water-flow, soil fertility, conservation of moisture, a preventer of floods, a modifier of temperature, wind velocity and moisture content of air, is treated. The historical development of forestry is dwelt upon, explaining and setting forth the differences and conceptions of forest and forestry, and our understanding of the methods of reproduction and regeneration, the systems of forest management, and the utilization and production of forests. A study is made of the comparative values of agricultural pursuits and forestry as a business. The practical and legislative development of forestry in all the important countries of the world is studied in detail.

Laboratory.—The work consists of the fall work in pruning and protecting trees, shrubs and vines; the collecting and handling of seeds; indoor methods of propagation, including the making and storing of grafts and cuttings.

10. Dendrology. One term. Lectures, and text-book, Sargent's Manual of Trees of North America. This term's work consists of a taxonomic and biologic study of the important timber-producing trees grown in this country and a number of foreign species. The bud, leaf, flower, fruit, and bark, and the forms of the different species of trees, are examined and studied, so that the student may become so familiar with these trees that he is enabled to recognize them in their winter and summer condition. The behavior of these many different species of trees under the several factors of environment, as wind, heat, cold and different characters of soil, is noted. Attention is given to the rate of growth, the tolerance, the form of the root system, the form of bole and crown, and any particular or peculiar characteristics of bark, wood, or manner of reproduction.

Laboratory.—This consists of observations made in the field, and in the classroom a more minute study, including drawings of the bud, leaf, flower and fruit of the tree. It is the aim that a student shall be so trained as to enable him to recognize trees. A valuable aid to the acqui-



Three of a kind.



Winter pruning.

sition of this knowledge is a large acreage of valuable timber plantings that consists of most of the important trees of this country, which is available for examination and study by these students.

Silviculture. Two terms.

11. Silvics. First term. This term's work embraces a thorough technical study of the factors of environment that influence development and distribution of trees. Special emphasis is placed upon the effects produced upon tree growth by varying degrees of heat and cold, movement of the air, moisture content of air and soil, altitude and exposure, physical and chemical properties of soils, various insects and larger animals, and diseases. The student is taught how these factors influence the size, form, rate of growth, quality of timber produced, and reproduction and distribution of our forest-trees.

Laboratory.—Designed to point out and emphasize the silvical characteristics of trees, and the influence or effects produced by the factors of environment on these trees, as noted in the lectures and research work in the library.

12. Practical Silviculture. Second term. The important points 12. Fractical SHYICHTURE. Second term. The important points studied during this term are the making of tree-seed germination tests, preparation and care of nursery seed-beds, and the care and planting of seedlings and cuttings. Part of the term is devoted to study as regards the management of forests by thinning cuttings, improvement cuttings, and reproduction cuttings.

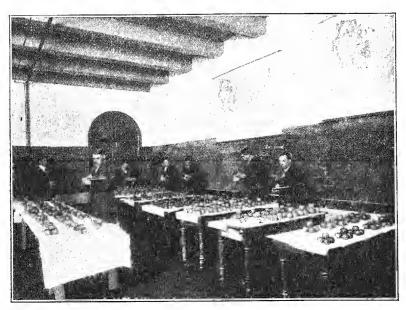
Laboratory.—This includes the actual preparation of nursery seedbeds, sowing of seed, transplanting of cuttings, and making of thinning, improvement and reproduction cuttings.

13. Mensuration. Text-book, Mensuration, by Graves. 13. Mensuration. Text-book, Mensuration, by Graves. This is a study of the methods used for determining the rate of growth of trees and stands, the volume of stands of trees and logs, and the age of trees and stands. The student is required to master the important log rules, the strip method, the Michigan method, the sample-plot method, and the method by eye of investigating and computing the volume of standing timber. As an aid to this the natural and artificial plantings of timber on the College farm and in the vicinity afford the student an opportunity to learn the fundamental principles of mensuration. to learn the fundamental principles of mensuration.

GRADUATE.

14. Forest Technology. Laboratory, lectures, and text-book, Boulger's Woods. The student is required to make a study of the histological and mechanical properties of the woods of our economic forest-trees. A thorough study is made of the cellular structure, the weight, hardness and mechanical properties, such as stiffness, toughness, brittleness, elasticity and durability of these woods. The fitness of any particular kind of wood for special purposes is determined.

15. Forest Management. Laboratory. This includes the survey and making of a given timber tract, the examination of this tract as regards soil and the species of timber; the determination of the age and volume of the young and merchantable timber, including description of the various



Judging apples.

types that may be there; plans for cutting and lumbering marketable timber; and the protection of forests against fire, wind, grazing, insects and disease.

- 16. Forest Protection. Lectures. The value, importance and necessity of protection of forest property is emphasized. The destroying agents are pointed out, and the nature and severity of the effects produced by wind, fire, insects, diseases, heat and cold, and the grazing of animals are explained, and the natural ability of a given species to withstand attacks of these facts is made clear; attention is also given to methods of preventing or combating injurious effects either by methods of planting, management, harvesting, or the use of artificial or external means, such as spraying, sanitary measures, and the making of fire lanes.
- 17. Greenhouse Construction and Heating. Fall term, senior year. This term's work deals with the construction of modern greenhouses, the advantages and disadvantages of different types of houses, the value and comparative cost of materials, and the construction of benches. It also takes up in detail the heating and ventilation and the comparison of different methods as to efficiency and cost.
- 18. Greenhouse Management. Winter term, senior year. This study takes up in detail the care of various groups of plants and individual species in the various groups in regard to soil, temperature, moisture, and effects of fertilizers.
- 19. Planting and Bedding Plants. Spring term, senior year. This term's work takes up the general principles of bedding and borders, planting and arranging of plants in beds in respect to color and method of growth, design bedding and carpet bedding, and massing of larger plants for best effects.

LIBRARY ECONOMY.

An apprentice course in library economy is offered general science students as an elective in the junior and senior years. This course consists of four hours a week of practice work in the library under the supervision of the librarian and assistants, and includes the consideration of the following subjects:

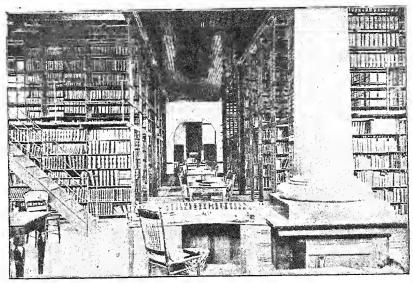
FIRST YEAR.—Library handwriting, accession work, classification, shelf-listing, alphabeting, mechanical preparation of books for the shelves, care of periodicals and pamphlets, loan-desk work, elementary reference work, and typewriting.

SECOND YEAR.—Advanced reference work, cataloguing, bibliography, book selection, and ordering.

Reading work will be assigned each year on the history of books and printing, the history of libraries, and other subjects relating to the library.

MATHEMATICS.

It is the aim of the department of mathematics to give a thorough training in a small number of subjects, and to develop in the student the ability to attack new problems successfully rather than to burden his mind with a large number of facts and special methods. The work is directed primarily with the following ends in view: (1) The attainment of mental power and accuracy in the service of general culture; (2) the acquirement of facts and processes that will furnish the student a valuable tool in further scientific and technical study. The following statement contains a brief description of the courses to be given: Nos. 1 to 3 are required in all courses; Nos. 1 to 7 in the engineering and architecture course; Nos. 1 to 8 in the civil engineering course.



Library.

- 1. Geometry I. First year, fall term. Text-books, with exercises for original demonstrations.
- 2. Geometry II. First year, winter term. Continuation of course 1. Fourth, fifth, sixth, seventh and eighth books, treated as before, with special attention to original work.
- 3. Plane Trigonometry. First year, spring term. Text-book, Wentworth. Solution of plane triangles, essentials of goniometry, applications to surveying and navigation.
- 4. Algebra IV. Second year, fall term. Text-book, Wells's New Higher Algebra. Binomial theorem, undetermined coefficients, logarithms, and general theory of equations.
- 5. Analytical Geometry. Second year. Rectangular and polar coordinates; the straingy line, circle, parabola, ellipse, hyperbola, and general equations of the second degree.
- 6. Differential Calculus. Second year, spring term. Text-book, Osborne. The various methods of differentiation, with the usual applications.
- 7. Integral Calculus. Third year, fall term. Same text. Integrations, with applications to curves and surfaces.

MECHANICAL ENGINEERING.

The subjects in this course are adapted primarily to the needs of the students in mechanical engineering, but a few subjects are introduced to meet the requirements of the other courses. The subjects are so arranged that the student first learns, in the classroom, the principles upon which the action of a mechanism depends, and afterwards studies the action of the same mechanism in the laboratories and shops.

In the mechanical engineering course all numbers below are required but 35, 37, 41, 44, 45, 47, 48 and 49.

In the civil engineering courses Nos. 1, 2, 3, 5, 7, 8, 16, 18, 21, 23, 24, 27, 32, 35, 37, 39, 41, 42, 43 and 44 are required.

In the electrical engineering course Nos. 1, 2, 3, 4, 5, 6, 7, 8, 9, 11, 12, 14, 15, 18, 19, 24, 25, 32, 44, 45 and 46 are required.

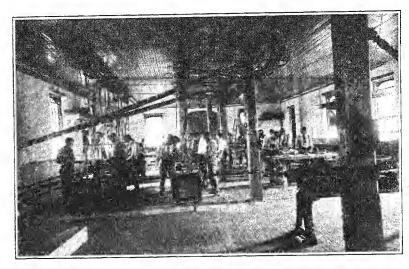
In the architectural course Nos. 1, 2, 3, 5, 7, 8, 24 and 46 are required. In the printing course Nos. 1, 2, 3, 12 and 49 are required.

In the general science, veterinary, dairy and poultry courses Nos. 1, 2 and 3 are required.

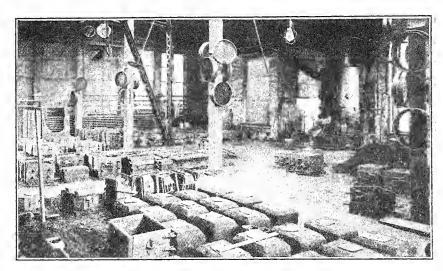
In the agricultural and animal husbandry courses Nos. 1, 2, 3 and 49 are required.

In the horticultural course Nos. 1, 2, 3 and 48 are required.

- 1. Woodwork I. First year, fall term. A graded set of problems in joiner is given, together with practice in working to dimensions and the proper use and care of bench tools. Tools required: Two-foot pocket folding rule.
- 2. Woodwork II. First year, winter term. This work is a continuation of that given under woodwork I.
- 3. Blacksmithing I. First year, spring term. A graded set of problems designed to teach the operations of drawing, upsetting, welding and forming, accompanied with instruction in the care of fires and the behavior of iron at different heats. Preparation required, woodwork II. Tools required: Two-foot rule, one pair of five-inch outside calipers.
- 4. Blacksmithing II. Second year, fall term. Advanced work in the forging of iron and the manufacture of steel tools. Instruction is given in tempering, case-hardening, and annealing. Tools required: Two-foot rule, one pair of five-inch outside calipers.
- 5. Mechanical Drawing I. Second year, winter term. Exercises in lettering, shading and the drawing of simple mechanisms. Each student is expected to provide himself with the following drafting supplies: Triangles, T-square, scale, pencils, pens, ink, erasers, thumb-tacks and drawing instruments. It is desired, however, that the supplies be not purchased until after consultation with the instructor in charge of the work. Preparation required, descriptive geometry. Text-book, Adam's Mechanical Drawing.



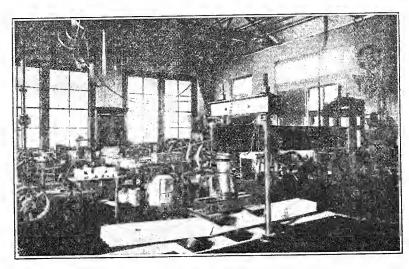
Pattern-making shop.



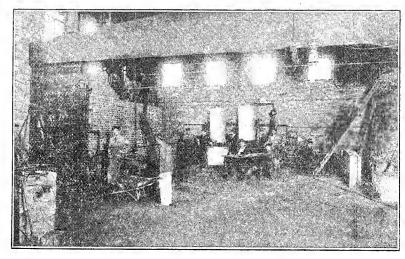
Foundry.

- 6. Foundry. Second year, winter term. Foundry practice is given in both floor and bench molding, including the making of cores, brass and iron castings, and the mixture of special alloys. Cupola practice and the making of machine castings for shop use are included.
- 7. Kinematics I. Second year, spring term. An elementary course in mechanisms, particularly the principles involved in the construction of gears, cams and quick-return motions. Preparation required, trigonometry. Text-book, Schwamb and Merrill's Treatise on Mechanism.
- 8. Mechanical Drawing II. Second year, spring term. Drawing of simple parts of machines from plates and models. Particular attention is given to the arrangement of views on the plate, to the titling, to the lettering of notes, and to the accuracy of the drawings. Text-book, Adam's Mechanical Drawing.
- 9. Pattern-making. Second year, spring term. This term's work includes wood-turning and pattern-making. Each student is required to turn several specimens and make various patterns. Tools required: One two-foot rule, one pair three-inch dividers, one pair five-inch outside calipers, one pair five-inch inside calipers, one six-inch scale.
- 10. Kinematics II. Third year, fall term. A continuation of the work of the previous term, dealing particularly with trains of gearing, linkages, and combinations of mechanisms in general. Preparation required, kinematics I, mechanical drawing II. Text-books, Schwamb and Merrill's Principles of Mechanism and Kerr's Power Plants.
- 11. Mechanical Drawing III. Third year, fall term. A continuation of mechanical drawing II, and practice in machine-drawing. Text-book, Adam's Mechanical Drawing.
- 12. Machine-shop I. Third year, fall term. Practice in chipping, filing, scarping, and laying out work from drawings. Tools required: A six-inch scale, a four and one-half to six-inch square. Students are advised to purchase a combination square.
- 13. Steam Engineering I (Valve-gears). Third year, winter term. A study of the design, construction and operation of the valve gears and linkages of steam and other engines. Preparation required, kinematics and integral calculus. Text-book, Peabody's Valve Gears for Steamengines.

- 14. Mechanical Drawing IV. Third year, winter term. Drawing from sample plate, but to an enlarged scale, a detailed working-drawing of a horizontal multitubular boiler and setting.
- 15. Machine-shop II. Third year, winter term. Instruction in lathe work, boring, and drilling. Tools required: One two-foot rule, one sixinch scale, one pair three-inch dividers, one pair five-inch outside calipers, one pair five-inch inside calipers, one center-gage, one center-drill.
- 16. Applied Mechanics I. Third year, spring term. The first few days are devoted to a rapid review of analytical mechanics, followed by study of the mathematical methods of determining centers of gravity, moments of inertia, etc., of surfaces and solids. Study of the analytical methods of determining stresses in roof and bridge trusses and the stresses and moments of columns and beams. Preparation required, physics III and integral calculus.
- 17. Mechanical Drawing V. Third year, spring term. The work this term consists in making a detailed working-drawing of some part or group of parts of a small steam-engine and an assembly drawing of the complete engine. Preparation required, mechanical drawing IV, steam engineering I.
- 18. Engineering Laboratory I. Third year, spring term. Practice in the use, adjustment and calibration of laboratory instruments, tests on the efficiency of hoists. calibration of gages, use of dynamometers, and experiments in strength of materials. Preparation required, applied mechanics I (may be taken the same term).
- 19. Machine-shop III. Third year, spring term. Advanced work on lathes, planers and milling-machines, including gear-cutting.
- 20. Steam Engineering II (Thermodynamics). Fourth year, fall term. A study of the thermodynamic principles of perfect gases, saturated and superheated vapors, and the theory of injectors. Preparation required, steam-boilers and definite integration. Text-books, Peabody's Thermodynamics of the Steam-engine and Peabody's Steam Tables.
- 21. Applied Mechanics II. Fourth year, fall term. Analytical and graphical methods used in the design of columns, beams, girders and riveted joints. Preparation required, applied mechanics I.



Engineering laboratory.

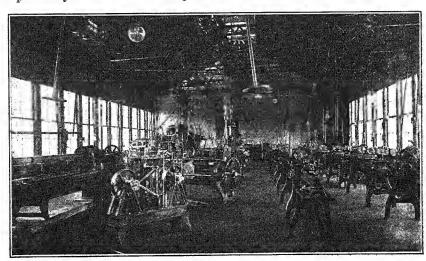


Boiler testing.

- 22. Mechanical Drawing VI. Fourth year, fall term. The work this term consists in the graphical solution of a problem relating to the reciprocating parts of a plain slide-valve engine and the detailed working-drawing of valve, steam-chest, cylinder, piston, piston-rod, cross-head and guides for the engine. Preparation required, mechanical drawing V and steam engineering I. Text-book, Kent's Mechanical Engineer's Pocket Book.
- 23. Engineering Laboratory II. Fourth year, fall term. Experiments in strength of materials continued, including work with timber, cast iron, wrought iron, steel, babbitt, bronze, and other compositions. Preparation required, engineering laboratory I.
- 24. Graphic Statics. Fourth year, fall term. Graphical solution of problems relating to roof and bridge trusses. Preparation required, applied mechanics I or applied mechanics A or E.
- 25. Machine-shop IV. Fourth year, fall term. The time of this term is devoted to the building of a small machine or making the parts of a large one.
- 26. Steam Engineering III (Boilers). Fourth year, winter term. A study of the construction, erection and operation of steam-boilers and appliances, including the study of tools. Preparation required, steam engineering I and integral calculus. Text-book, Peabody's and Miller's Steam-boilers.
- 27. Applied Mechanics III. Fourth year, winter term. Strength of shafting, design of springs, friction, mechanics of moving parts, and strength of materials. Preparation required, applied mechanics II and steam engineering I.
- 28. Mechanical Drawing VII. Fourth year, winter term. The design of a modern power-plant installation. In this work the student is expected to select standard commercial types of boilers, stokers, coal-handling apparatus, mechanical draft appliances, boiler auxiliaries, and steam-engines or turbines, and to arrange them in the building or buildings which he has designed for that purpose in such manner as will give the most efficient and economical means of generating power. Preparation required, mechanical drawing VI. In connection with this work

he should be taking in class steam engineering III and applied mechanics III.

- 29. Mechanical Engineering Laboratory I. Fourth year, winter term. Tests on cement and concrete, including work with reinforced concrete beams, columns, fence-posts, and bridge sections. In this work the student not only tests the specimens but he designs and builds them. In the second half-term, tests are carried on on gas-engines, air-compressors and refrigerating machinery.
- 30. Machine-shop V. Fourth year, winter term. A continuation of the previous term's work.
- 31. Steam Engineering IV (Thermodynamics). Fourth year, spring term. A continuation of the work of the previous term, including the thermodynamics of gas-engines, air-compressors and refrigerating machines. Preparation required, steam engineering III. Text-book, Peabody's Thermodynamics of the Steam-engine.
- 32. Hydraulics I. Fourth year, spring term. This term's work includes a study of the principles of hydrostatics and the action of watermotors. Preparation required, applied mechanics I or applied mechanics E. Text-book, Merriman's Treatise on Hydraulics.
- 33. Mechanical Drawing VIII. Fourth year, spring term. A continuation of the work of the preceding term.
- 34. Mechanical Engineering Laboratory II. Fourth year, spring term. A series of efficiency tests on boilers, steam-engines or turbines, traction-engines, and producer-gas engines. Complete tests are made, including observations and calculations from the time the coal leaves the bin until the load is taken off from the switchboard. The student is thus enabled to determine exactly what losses occur and where they occur.
- 35. Structural Engineering I. Fourth year, spring term. Theory of stresses developed in arches and continuous girders. Design of structures of wood, metal, stone, and concrete. Preparation required, applied mechanics III.
- 36. Mill and Structural Engineering. Graduate year, fall term. Design of mill and factory buildings with the arrangement of power transmission and the machinery therein. The classroom work is accompanied by work in the drafting-room and laboratories.



Machine shop.

- 37. Structural Engineering II. Graduate year, spring term. An extension of that part of the preceding term's work relating to iron and steel, with special reference to the design and construction of bridges and the steel skeleton framework of buildings. Preparation required, structural engineering I.
- 38. Power Plant Engineering. Graduate year, winter term. A study of the design, installation and operation of steam, gas and hydraulic power plants. The drawing-room and laboratory work is devoted to the laying out of installations and to the conduct of efficiency tests of those already installed.
- 39. Hydraulics II. Graduate year, winter term. A continuation of the work of hydraulics I, with particular attention paid to the construction of flumes and conduits, and the design, equipment and erection of hydraulic power plants. Preparation required, hydraulics I, applied mechanics III.
- 40. Locomotive Engineering. Graduate year, spring term. A study of the principles underlying the design, construction and operation of modern locomotives, accompanied by work in the drafting-room on the design of locomotive parts and auxiliaries and work on the road testing locomotives.
- 41. Structural Engineering III. Graduate year, spring term. Design and construction of dams, retaining walls, warehouses, and other structures. Special stress will be laid on plain and reinforced concrete and masonry design. Preparation required, structural engineering II.
- 42. Contracts and Specifications. Graduate year, spring term. In this course the students are required to draw up contracts and specifications for various engineering works, using as models forms that have been secured from leading engineering firms. One or more lectures on business law will be given in this course.
- 43. Seminar. Graduate year, spring term. Each student is assigned a subject on which he is to prepare an article to be presented before the class on a certain date. He is expected to be able to answer questions that may arise in the course of the discussion, and to be able to defend his statements. The grade in the subject depends not alone upon the subject-matter, but also upon the manner of presentation and his ability to support any statements made.
- 44. Steam Engineering C and E. Winter term. An elementary course in valve-gears, steam-boilers and thermodynamics of the steamengine. Designed for students in civil and electrical engineering.
- 45. Steam Engineering E II. Graduate year, fall term. A continuation of the work taken up under steam engineering C and E, with particular attention to the thermodynamics of large steam units used in electrical power plants. Taught to students in electrical engineering.
- 46. Applied Mechanics A and E. Third year, winter term. A condensed course in applied mechanics, taking up the subjects of moments, moments of inertia, stresses in columns, beams and girders, an analytical study of roof and bridge trusses, and a short course in strength of materials. Intended for students in electrical engineering and in architecture. Preparation required, integral calculus.
- 47. Structural Engineering A. Graduate year, spring term. A course in the design of engineering structures, based on the previous term's work in applied mechanics. Taught to students in architecture. Preparation required, applied mechanics A.
- 48. Greenhouse Construction and Heating. Graduate year, fall term. A course taught to students in the horticultural course, and dealing with the design and construction of greenhouses and with the layout, installation and operation of heating plants for the same.
- 49. Farm Motors. Fourth year, fall term. This course is designed for students in agronomy, animal husbandry and printing, and deals with the construction and operation of various farm motors, such as gasoline-

and steam-engines in the stationary, portable and traction types, with hydraulic motors and rams, and with the transmission of power. In connection with the classroom work there is a course in the laboratories, in which the students are instructed in the operation of the various motors and receive practice in installing the same. Incidental to the installation, a certain amount of instruction and practice in the use of concrete is given.

Thesis. Fourth year, spring term. A thesis dealing with some subject closely related to mechanical engineering is required of each graduate of this course. The work is done under the supervision of one of the instructors of the department, but the student is required to lay out his own scheme for the work, and oftentimes to design, construct and calibrate the apparatus to be used. Upon completion of the graduate year a second thesis is required, which may be on an entirely different subject than that of the first thesis, or may be a continuation of the same.

EQUIPMENT.

The shops of the Kansas State Agricultural College are furnished with the best modern machinery and tools for working both wood and iron, and are in operation six days per week throughout the year.

Wood Shop.—This wood-working room is 40 x 66 feet, contains 220 separate kits of tools, and benches for forty-four students in each class.

Pattern Shop.—This room is 40 x 100 feet, contains twenty wood lathes fully equipped with tools and chucks, wood planer, friezer, bandsaw, jig-saw, circular saw, power mortiser, sand-papering machine, eight pattern-makers' benches, drills, grindstones, and a tool-room with complete equipment of small tools.

Machine Shop.—This room is 40 x 80 feet, contains twelve fourteeninch engine-lathes, one twenty-eight-inch by twenty-foot engine-lathe equipped with blocks to raise it to sixty-inch swing, one sixteen-inch combination engine- and turret-lathe, speed-lathe, Gray planer, Hendey-Norton shaper, Brown & Sharpe No. 2 universal milling-machine, Walker universal grinder, special drill-grinder, key-seater, bolt-cutter, pipe-machine, vertical drills, fifty-one-inch vertical turning-and-boring mill, benches and tools for fifty students, and a completely stocked tool-room, equipped with the finest modern tools.

Blacksmith Shop.—This room is 40 x 50 feet, equipped with twenty-four forges fitted with power exhaust. Each forge has anvil and complete set of smithing tools. In addition to the general tools for a fully equipped blacksmith shop, there are also installed here a drill-press, punch and shear, emery-grinders, cold saws, and a number of pieces of special apparatus built by the department.

Iron Foundry.—This room is 40 x 50 feet, equipped with a two-ton cupola, and one-and-one-half-ton steel crane, core oven, an exceptionally large number of flasks, both wood and iron, ladles, etc. The foundry makes all castings for machine building, together with boiler-fronts, grate-bars, and special repair work.

Brass Foundry.—This room is 16 x 30 feet, with furnace, crucibles, flasks, and a complete equipment for bench and floor molding. The product consists of bearings, friction metal, valves, fittings, etc.

Engineering Laboratory.—This room is 35 x 40 feet, and contains a great variety of apparatus, among which may be specified a 100,000-pound testing-machine, both automatic and autographic; an eight-horse-power vertical steam-engine; an eight-by-eight Ingersoll-Sargent air-compressor; a six-horse-power Sturtevant engine, used as an air-motor; a ten-horse-power Witte gasoline-engine; a six-horse-power Dempster gasoline-engine; complete cement-testing outfit; absorption, transmission and traction dynamometers; steam- and gas-engine indicators, gage-testing apparatus, and a variety of special machines for the testing of material; also, thermometers, calorimeters, speed indicators, etc. The very complete boiler- and engine-rooms adjoining the laboratory afford special opportunities for the work relating to steam engineering. Yards

and sheds have been provided for carrying on tests that cannot be made in the laboratory. The department has a twenty-horse-power tractionengine that is fitted up to run boiler, engine and traction tests. There has been installed a Miles concrete-block machine. The cement blocks made in this machine will be tested under various conditions of mixtures, age, etc. Tests will also be made to determine the effects of fire on building blocks.

building blocks.

Power Plant.—The boiler-room contains five sixty-horse-power horizontal return-flue boilers, three 100-horse-power boilers, pumps, steamtraps, etc. These boilers are used for the generation of steam, for both power and heating purposes, and are independently connected, that they may be tested individually or in groups. The engine-room is equipped with a 100-horse-power medium-speed engine, directly connected to a 60 k. w. multipolar generator, with marble switchboard and complete apparatus; one fifty-horse-power Ball & Wood engine, belted to bipolar generator, with switchboard; one ten-horse-power Atlas engine; one five-horse-power generator, built in the shop, for testing purposes; one Shipman coal-oil engine and several small dynamos for testing purposes. In connection with the power plant is a very complete rope-driven installation, especially designed for the department.

Drawing-rooms.—On the second floor of the wood-working department

Drawing-rooms.—On the second floor of the wood-working department are found the drafting-rooms, recitation- and lecture-rooms, photographic and blue-printing rooms, and a paint and varnish room.

MILITARY TRAINING.

This institution being one of the beneficiaries of the act of Congress of 1862, instruction in military tactics is made compulsory. The course of instruction is made to conform strictly to the provisions of General Orders No. 155, War Department, 1907.

In compliance with the requirements of that order, the course will be both practical and theoretical, and applied as follows:

a.—Practical.

- 1.—Infantry drill regulations, through the evolution of the regiment, in close and extended order.
- Advance- and rear-guards and outposts.

-Marches.

- -The ceremonies of regimental review, inspection, parades, and guard-mounting.
- -Infantry target practice. 6.—Instruction on first aid to the injured.

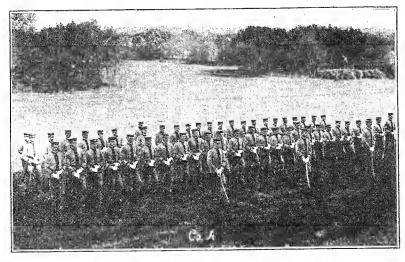
b.—Theoretical.

- 1.—The infantry drill regulations, covered by the practical instruction.
- The manual of guard duty
- 3.—Small-arms firing regulations.
- 5.—Small-arms Infig Teginations.
 4.—Field-service regulations.
 5.—The Articles of War, with specific reference to articles 4, 8, 15, 20, 21, 22, 23, 24, 32, 38, 39, 40, 42, 44, 46, 47, 50, 55, 57, 61 and 65.

6.—Lectures.

The national government has supplied the College with 475 rifles and an equal number of sets of infantry accouterments; also two three-inch field-guns and carriages. Swords, target supplies and annual issues of ball and blank cartridges are also received from the general govern-

Organization. Cadets are organized into two battalions of infantry and a band, the drill and administration of which shall conform to that of the United States army. Officers and non-commissioned officers are selected by the professor of military science and tactics, with the approval



Company A.

of the President, according to the principles governing such selection at the United States Military Academy, and receive commissions and warrants from the President of the College.

Discipline. Each cadet is furnished with a copy of the cadet regulations governing the military department, approved by the Board of Regents, and is required to familiarize himself with them and to conform strictly to their requirements.

Band. Assignments to the band are made by the band leader, who is charged with the technical instruction. Practice in the band is accredited, through the military department, in lieu of drill and theoretical instruction, subject to the provisions of the cadet regulations, with which strict conformity is required.

The purpose of the cadet band is to foster and encourage among the cadets a love for patriotic national airs and martial music.

Requirements. All young men are required satisfactorily to complete six terms' work before graduation, unless excused for physical disability. Drill periods scheduled in the course of study refer to full hours of sixty minutes each. Additional work is optional with juniors and seniors, who are given preference for appointment as officers. A junior or senior having enrolled optionally and accepted a commission is required to continue the work throughout the College year, subject to the same regulations as other cadets.

Uniform. The uniform conforms to the West Point cadet pattern. Blouse must be of good quality cadet-gray cloth, trimmed with best quality mohair braid one inch wide, collar not less than one and one-half inches high, with half-inch gilt metal letters K. S. A. C.; insignia of rank to conform to that of the United States infantry; trousers, good quality cadet-gray doeskin, with black cloth stripe of army regulation width to denote rank; cap, West Point cadet pattern, with College emblem.

Trimmings of band uniforms are modified as authorized for bands in the United States army.

the United States army.

The commandant of cadets furnishes specifications to all authorized dealers in uniforms, and uniforms must conform to such specifications.

All military students are required to provide themselves with uniforms within two weeks after assignment. The uniform can be purchased at a

reasonable price, after enrolment, and makes a good, serviceable suit for regular College wear.

Text-books. Each military student will be required to provide himself with the following text-books: United States Drill Regulations (latest edition), The Manual of Guard Duty (latest edition), Small-arms Firing Regulations (latest edition), Field-service Regulations.

The instruction in keeping records will be from blank books provided

by the War Department.

War Department Record. At the close of the year the names of the three cadets most distinguished in military science and tactics are reported to the War Department for insertion in the United States army register, and also to the adjutant-general of the state.

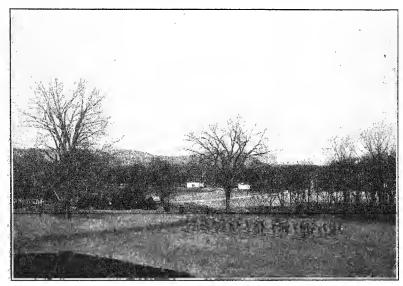
MUSIC.

Recognizing the importance of music in our daily life, its power, culture, inspiration, comfort, and the necessity of musical knowledge for those who aim at the profession of teaching, this College offers to the earnest student a good opportunity for the study of music.

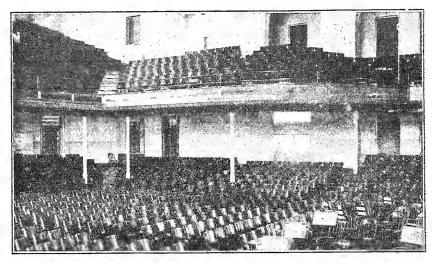
No regular course is given. The student may take music for one term only, or for an extended period of five years. Instruction is furnished free to all regular students assigned to music in the following branches: Voice, piano, violin, wind and brass instruments; notation, theory, harmony and musical history.

ALL CLASS INSTRUCTION. Class organization shall be wholly under the control of the professor of music. Classes will be organized at such periods as will best accommodate the students interested.

Voice. In developing the voice, the laws of nature must be strictly followed, and only through the most conscientious study will the true voice, with its volume, resonance, intensity, purity and flexibility be obtained. Texts: First and second years, teachers' exercises, Concone's fifty exercises, sacred and secular songs, solo, quartette and chorus singing; third, fourth and fifth years, exercises by Bordese, Lamperti, Marchesi, Nava, Panofka, Panseron, Rubini, Savinelli, and others; songs by



Cadet band.



Auditorium.

Shubert, Brahms, Schumann, and other great masters; oratorio and operatic arias.

Piano. In the study of this instrument, which occupies a place of so much dignity and importance in every musical education, great attention is given to every detail of technique and to the development of a correct touch, which is so necessary in giving expression to musical thought and feeling. It includes position of fingers, hands, wrists and arms, properties of touch, thorough drill in scale and arpeggio playing, and exercises in accent, rhythm and expression. The curriculum is chosen from the works of the standard composers, not omitting modern European and American writers who best represent the modern spirit and progress. The following outline of a course of study, made with reference to the musical value of the selections, as well as to the special necessities of the pupils, may be followed or varied by the professor in charge: Text, Zwintcher's Exhaustive Book of Daily Studies. Czerny, Kohler, Duvernoy, Melodic Studies by Heller, Sonatinas by Kuhlau and Clementi. Selections from Bach, Handel, Mozart, Haydn, Beethoven, Mendelssohn, and modern composers.

Violin. Instruction is based upon the best schools for the instrument, particular attention being given to correct position, intonation and bowing. Advanced students have the further advantage of playing in the College orchestra. Text, selections from the following works or their equivalents: Methods by Wichtl, Henning, Dancla, and De Beriot; exercises by Dancla, Pleyel, Kayser, Mazas, Schradieck, David; etudes by Kreutzer, Rode; solos by De Beriot, Leonard, Singelee, Alard, David, Vieuxtemp, and modern composers.

Musical Organizations. Each instrument has a distinct function in the science of tonal expression, and only in their combination are the finest effects in the coloring of the melody, harmony and rhythm procured. This combination is made possible in the musical department by the number of pupils and the variety of instruments studied. Students who are sufficiently advanced to join the College choral union, College glee club, College orchestra or the military band, may become members by assignment.

Choral Union. Chorus singing is of great importance to the vocal students, and for their benefit was this society organized. Two rehearsals are held each week, regular attendance being required.

Chapel Chorus. The most advanced pupils are requested to sing in this chorus, which furnishes music for chapel exercises. A splendid opportunity is here given to learn the art of directing. One rehearsal a week.

College Orchestra meets daily, and furnishes a valuable opportunity for study and practice in orchestra playing and for those who wish to study instrumentation. The members become acquainted with the standard works of orchestral composition, and this may best be done only by actual orchestra practice.

Military Band furnishes music for battalion formations and ceremonies and for various other College occasions. Membership is limited in number, and is decided by examination. Assignment to band is for entire year, and requires regular attendance until after commencement exercises.

Uniforms.—(See description under "Military Training.")

Public Exercises. Music for commencement week and other public College exercises is furnished by the musical department, under the direction of the professor in charge, and all students in the department shall be subject to his call to assist in furnishing the same.

Annual Concert. An annual concert will be given on the second Thursday in March.

During the spring term a number of musical recitals are given, in which the students furnish the entire program. These are open to the public.

PHILOSOPHY.

To be able to grapple most advantageously with the serious problems of life, one must have an intimate acquaintance with himself. To be able to become a valuable member of society, he must know how to develop and use his mental powers judiciously. Too many people are inclined to regard their mental activities as a sort of fixed inheritance, with little or no possibility of readjustment. It is the aim of this department to interest the student in a more careful study of the mental phases of human life, and to aid him in a more definite and systematic knowledge of the meaning of his own concrete experiences.

meaning of his own concrete experiences.

The several subjects are offered as follows: No. 1 is required in all courses; No. 2, in the printing, general science and domestic science and art courses; No. 3, in the agronomy, animal husbandry, dairying, horticulture, poultry husbandry, printing and general science courses.

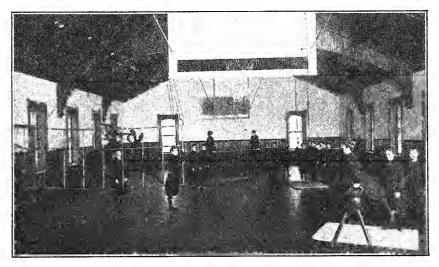
- 1. Elementary Psychology. This course is intended to give the student (a) a general idea of the meaning of psychology, and (b) a better method of expending his time and energies in the pursuit of college work. Not less than ten lectures will be given, as follows: (1) Neural basis of mind, (2) perception, (3) imagination, (4) memory, (5) habit, (6) thinking, (7) the emotions, (8) the will, (9) self-confidence, (10) methods of study and work. Text, Psychology and Higher Life.
- 2. Psychology. An effort is made to master the general principles of the subject, the various mental processes being analyzed and explained. Some attention is also given to theories of right and wrong and correct principles of action. Considerable time is given to the discussion of mental poise, self-control, emotional expression, the influence of the mind on the body, and the like. Special effort is made to enable the student to get the psychologic point of view, to the end that he may obtain a better understanding of himself and of human nature in general. He will then think of others in terms of mental conduct rather than in terms of physical conduct; and, having been made more fully aware of the obstacles that confront every earnest soul, he will become more sympathetic. Finally, as a result of systematic mental discipline, the student may expect to meet with greater success in his chosen vocation. Some

simple experiments are performed, and each member of the class is given a topic for special research. Text-book, James.

- 3. Philosophy. The work of a student attending a college of agriculture and mechanic arts is, in a sense, somewhat narrowing; that is, he must choose early in his college career a special course of study and devote practically all his attention to it, to the exclusion of many other subjects and affairs of much value and interest. As a result, the student tends to become conscious of his powers and capabilities in only one line of activity. But it is believed that the young specialist will make greater headway in the realization of his highest aptitudes by means of considering for a short term the broader aspects of human affairs. With a view to attaining the end just stated, this brief course in the introduction to philosophy is offered. There will be made an attempt (1) to enable the student to acquire some knowledge of the historical development of the world of science and of thought; (2) to consider in some detail the meaning of physical phenomena as against mental phenomena; (3) to bring, if possible, the student's seemingly disorganized experiences together into a larger unity that will throw some new light upon the meaning of human life and destiny.
- 4. Pedagogy. It has been found that a considerable number of the graduates of this College become public-school teachers. An act of the legislature grants to such graduates a three-year state certificate, renewable for life, provided they pass an examination in the so-called professional branches. These are given, as follows: History of education and school law, fall term; philosophy of education, winter term; methods and management, spring term.

PHYSICAL TRAINING.

The maintenance of robust health and a good constitution should be one of the chief aims of every girl. It is impossible to cultivate the body without benefit to the mind; likewise, in order to cultivate the mind properly one should learn to care for the body. With this end in view, a gymnasium for women has been provided. It is well equipped with apparatus, shower-baths, lockers, etc., and a well-regulated system of physical training is in successful operation.



Women's gymnasium.

Daily classes are held in light gymnastics—free standing work, marching, fancy steps, drills with dumb-bells, wands, and Indian clubs, with musical accompaniment; heavy gymnastics, including horse, parallel bars, chest weights, flying ring, ladder, stall bars, climbing ropes, and horizontal bar. Gymnastic games, including tennis and basket-ball, are taught to those who care to learn. When the weather permits, exercises are taken in the open air.

All young women of the College have access to the privileges of the gymnasium, and one year's work is required. Before entering upon the work, a physical examination is made by the director. The examination includes measurements of physical proportions and takes note of the condition of the heart and lungs. From this examination an anthropometric chart is platted, showing size, strength, and development, and defects in comparison with the normal standard. Frequent measurements are taken and comparisons made to show effects of training.

A uniform suit has been adopted, which all the girls taking gymnasium work are required to provide themselves with. The suit is black, and consists of a blouse waist and bloomers, and must be made in the uniform style, color, and cloth. The pattern for the suit and sample of

cloth may be obtained by sending fifteen cents and bust measure to the secretary of the College. Gymnasium shoes may be purchased at prices ranging from fifty cents to one dollar and thirty-five cents. The entire suit, including shoes, need not cost more than four dollars.

PHYSICS.

Recognizing the need of a thorough knowledge of the fundamental laws and principles involved in all physical changes, it is the intention to provide in the courses which follow both a theoretical and a practical treatment of the subject.

Instruction will be based upon the facts given in selected text-books and these topics enlarged upon by lectures and illustrated by experimental demonstrations. The aim is to give a training in exact reasoning and a knowledge of principles that will be factors in the solution of problems in all branches of science as well as in every-day life.

The laboratory work which accompanies all courses in physics will give the student abundant opportunity to test the principal laws, and, since he will be expected to arrange and operate the apparatus, the work should enable him to acquire skill in manipulation, precision of judgment, and care in the use of delicate instruments.

The laboratories are well arranged for the work, and the equipment provided is of a nature adapted to meet the requirements for accurate work in all courses.

Courses 1 and 2 are required of all students; courses 3, 4 and 5 are required of engineering students; courses 6, 7 and 8 are elective.

1. Physics I. Freshman year, fall term. This work is intended to give a general view of the subjects of mechanics and heat. Special emphasis will be placed upon those principles which will be met again in later work in the same or other sciences. Text, Millikan and Gale.

Laboratory.—The importance of accurate measurements, observations and conclusions will be emphasized in the use of such instruments as the calipers. balances, micrometer, spherometer, barometer and thermometers. The measurements taken will be made the basis of problems to illustrate the various laws discussed in the classroom.

2. Physics II. Freshman year, winter term. This course is a continuation of the preceding course, and will include a study of electricity, sound and light. Discussions of the most important laws involved in each, together with explanations of many of the every-day phenomena, will be followed by problems. The fundamental laws in electricity will be studied and illustrated and the working principles of many of the

electrical appliances in daily use will be made subjects for class discussions. Text, Millikan and Gale.

Laboratory.—Measurements in reflection and refraction, use and construction of cells, simple forms of wiring and use of instruments for measuring current will be made the basis of the work given.

3. Physics III. Junior year, fall term. Mechanics. This course is intended to give the engineering students as thorough a working knowledge as possible of the fundamental units and laws involved in force, work, power and energy; also the laws of simple machines, gases and liquids as they occur in the transformation of force and energy. Text, Watson.

Laboratory.—The work will be based upon the use of apparatus to test the laws of inertia, moments of force, moments of torsion, elasticity and rigidity, and other laws and principles involved in mechanics. Accurate measurements and carefully recorded data will be required.

4. Physics IV. Junior year, winter term. Light and electricity. The principal phenomena of light, together with the laws that may have a direct bearing upon light as a scientific standard and method of measurement, will be treated in this course. The work in electricity will be of such a nature as to give the student a working knowledge of the units employed and the fundamental laws, and to acquaint him with methods of producing current, its uses, and the system by which electrical energy is measured. Text, Watson.

Laboratory.—This work will consist of experimental tests in which reflection and refraction of light will form the basis of physical measurements. Measurements will be made of electrical resistance, electrolysis,

relation of heat and mechanical energy to electrical energy.

5. Physics V. Junior year, spring term. Sound and heat. The facts in sound that will involve points of special use and training will be discussed. Heat will be treated both theoretically and practically, and in such a manner that its relation to mechanical energy will be emphasized. The methods of measuring heat energy and the methods of heat transformations and transference will be discussed and illustrated. Text,

Laboratory.—This course will consist of measurements of velocity of sound in solids and gases, thermometry, calorimetry, expansion of solids, liquids and gases and the mechanical equivalent of heat.

6. Physics VI. Fall term. A thorough study of the laws of forces and motion. Composition of forces and velocities by graphic and trigonometric solutions. Nature of sound; its wave-motion and velocity; the factors that will change the velocity, and the phenomena produced by its reflection. Thermometry, calorimetry, the laws of radiation and absorption of heat. Text-book, Hastings and Beach.

Laboratory.—The work will be of such nature as to give students an opportunity to make experimental tests of the laws in the subjects discussed in the classroom.

7. Physics VII. Winter term. Electricity, magnetism, and light. This course is intended to give the student a historical review of the development of electricity and magnetism. The methods of measuring current and resistance will be discussed and illustrated. The solution of problems involving the laws derived in the classroom is required. Nature of light; laws of reflection and refraction. Construction of images in plane, concave and convex mirrors. Diffraction and interference. Text, Hastings and Beach.

Laboratory.—This work will include measurement of resistance, current, and potential; electrolysis, magnifying power of lenses, focal

lengths, photometry, etc.

8. Physics VIII. Spring term. A course in which the principles discussed will be those arising in meteorology. It will be the purpose in this course, by use of text-book and lecture, to study the fundamental principles that govern weather changes and conditions, and the use of instruments for recording the data taken, in preserving weather records, and in making up the daily weather forecasts. Courses 6 and 7, or their equivalents, will be required. Text, Davis.

Laboratory.—Experiments in relative humidity, vapor pressure and sensitive thermometers will be given, and the use and care of the weather instruments will constitute the work of this course.

POULTRY HUSBANDRY.

For the first time at this institution, regular work is offered in poultry husbandry to those who care to give special attention to this rapidly growing and most important branch of agriculture. This course is not designed as a distinct course in poultry culture, but to supplement a good general agricultural course during the fourth and fifth years, with special work along the lines of poultry husbandry.

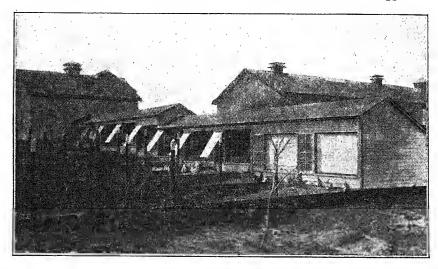
1. Poultry. (Elementary course.) Third year, spring term. This is a general course in poultry husbandry, required of all students taking agriculture, consisting of lectures and recitations on breeds of poultry, judging poultry, poultry feeds and feeding, poultry buildings, and general poultry management.

Laboratory.—Practice in judging; planning and making drawings of poultry plants; practice in judging poultry; studying poultry feeds; the structure of the egg; planning yards and poultry-houses.

2. Poultry Husbandry I. Fourth year, fail term. Lectures on the origin and classification of poultry breeds, breeding and feeding, considered from the standpoint of the farmer, the specialist and the fancier.

Laboratory.—Practice in individual judging of poultry; caponizing; planning and drawing buildings and yards adapted to the needs of the tarmer, the specialist and the fancier.

3. Poultry Husbandry II. Fourth year, winter term. Lectures and recitations on incubators, incubation, brooders, brooding, marketing poultry, feeding chickens for growth, for flesh, for fattening, and for eggs.



Poultry-runs.

Laboratory.—Feeding and keeping records of pens of fowls; practice

in operating and caring for incubators and brooders.

4. Poultry Husbandry III. Fourth year, spring term. Lectures on specialized poultry culture; preparing for market and marketing broilers, roasters and eggs. Lectures on poultry diseases, their causes, prevention and treatment; also lectures on parasites and their control.

Laboratory.—Practice in preparing broilers, squabs, chickens and fowls for market. Making plans and drawings of poultry-houses, illustrating proper methods of construction to provide for ventilation, light and sanitation.

In addition to the regular work as outlined above, provision is made

for advanced and special courses in poultry culture.

PREPARATORY DEPARTMENT.

Inasmuch as many students seek admission to the College with inadequate preparation in one or more of the subjects required for entrance, it has been found necessary to establish a preparatory department, in which such deficiencies can be remedied. Instruction is given in all studies required for admission to the College. See "Terms of Admission."

1. Arithmetic. Instruction is given in the principles that underlie the various classes of problems, thus teaching the student to rely upon himself, not upon rules. Text, state book.

2. Algebra 1. This includes the fundamental operations, factoring, highest common divisor, lowest common multiple, and fractions. Wells's New Higher Algebra.

3. Algebra II. Simple equations, involution, evolution, theory of exponents, and radicals as far as the subject of quadratic equations.

Quadratic equations, ratio and proportion, arith-4. Algebra III. metical and geometrical progressions.

5. Bookkeeping. This is not an extended course, but sufficient instruction is given to enable the individual to open and close accounts in ordinary business transactions. State text-book.

6. English Grammar. The aim is to lay a good foundation for the further study of English. Recognizing the fact that grammatical drill develops in students logical habits of thought, besides giving them greater command of language, special attention is given to the analysis and construction of sentences and to the principles of elementary composition. Two classes are formed each term, the B class completing the work in two terms; the A class in one term. Text, Longmans.

7. Advanced Grammar. One term. A review of the principles of grammar as preliminary to the College requirements in English. Practice in grammatical analysis of difficult sentences and of extended passages of literature. Also a study of the etymology of derivative words, of synonyms, of the uses of words, and of the principles of sentence structure, with practical exercises in word analysis. Text, Buehler.

8. English Readings. As a prerequisite to admission to the College classes in English, a careful study is made of a number of standard productions of first-class interest and easy style. Sketches of authors, both oral and written, character sketches, abstracts, outlines and analyses of every production are required. As these productions are mostly read and discussed in class, opportunity is afforded for considerable valuable training in pronunciation and effective reading.

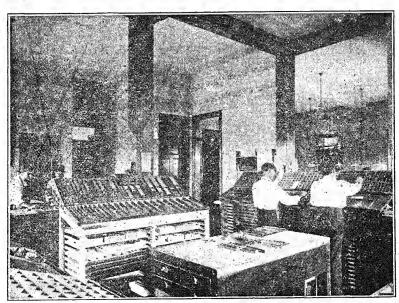
List of Readings.—Shakspere's Julius Cæsar; De Quincey's Joan of Arc and The English Mail Coach; Coleridge's Rime of the Ancient Mariner; Dickens's The Tale of Two Cities; Arnold's Sohrab and Rustum; Webster's Bunker Hill Orations; Tennyson's Idylls of the King.

- 9. English Composition. One term. The work is based on Huntington's Elements of English Composition. The object of the work of this term is to give the student a knowledge of the elementary principles of composition, to improve his vocabulary, and to help him overcome the fear of expressing himself in writing. To this end he is encouraged to choose subjects that spring from his own experience or observation, and is required to present one theme each week, which, after being read before the class, receives corrections from the instructor in charge.
- 10. United States History. The leading facts, causes and sequences showing the growth of our country and national history are studied with a view to develop true patriotism. Text, McLaughlin.
- 11. Ancient History. This course is introduced by a brief study of Egypt, the Hebrews, and other oriental nations. The history of Greece is followed from its prehistoric conditions to its conquest by Rome, 146 B.C. The Persian and Peloponnesian wars must be studied, but the emphasis is laid rather on the life and government of the people in their city-states, on the age of Pericles, and the art, literature and philosophy of the Greeks. Alexander the Great is studied, not so much for his military achievements, but rather as the disseminator of Greek civilization. The last half of the term is devoted to Roman history. The growth of the nation is followed, from the founding of the city till the great republic surrounded the Mediterranean and embraced practically all of the known world. The story of the Punic wars is, of course, included. The Romanizing of Europe; the reason for the change from republic to empire, and the method of its accomplishment; Rome's contribution to civilization, such as her roads and her laws; the origin of the Christian church; the Augustan age, and the lasting impression that 500 years of world empire made on mankind, are among the points emphasized. An attempt is made to acquire some familiarity with the great personages, such as Pericles and Cæsar, who played their part in the ancient world. Text, Myers's Ancient History, edition of 1904.
- 12. Medieval History. This course begins with the fall of Rome and the migration of the Teutonic tribes, thus discovering the very beginnings of the present European nationalities and languages. The work of Charlemagne; feudalism; the Christian church and monasticism; Mohammedanism; the achievements of the Northmen; the Hundred Years' war; the crusades; the formation of modern governments; the Italian cities, and the Renaissance, are among the subjects studied. Special emphasis is given to the history of England and the rise and power of the medieval church. Text, Robinson's History of Western Europe, first half.
- 13. Modern History. This course covers the period since 1492. The following are among the subjects emphasized: The Protestant Reformation and the later development in the history of the church; the Thirty Years' war, especially its causes and results; the second great series of wars between England and France, including the French and Indian wars, the American Revolution, and the Napoleonic wars to 1815; the French Revolution; the rise and fall of Spain; the growth of France and recent changes in her government; the creation of the German empire and of modern Italy; the heroic struggle of the Netherlands and the growth of Russia; the last century of European history, the chief facts in the present governments of the European nations, and their present international relations. Text, Robinson's History of Western Europe, second half.
- 14. Physiology. This is elementary work, intended to prepare students for the more advanced work given in second year of the agriculture, domestic science and general science courses. As far as possible, models, skeletons and dissecting material are made use of in the classroom. Walker's Elementary Physiology is used as a text.

15. Geography. Because of recent history, special attention is paid to the geography of the United States, its possessions, products, resources, methods of transportation, etc. Text, state book.

16. Botany I. The object of the course is to acquaint the young student with the primary essential facts in the life and grown of plants; to enable him to see how plants work and live, and upon what things, in the external world, they depend. As much knowledge of plant structure is required as will render the working processes clear. Practical studies are followed out in such problems as germination and growth, in the uses of the different plant organs, in respiration, transpiration, carbon assimilation, storage and transport of food, building up of tissue, etc. The effects are studied of unfavorable conditions, such as drought, freezing, lack of sunlight, etc. The different ways in which plants increase are examined, and the manner in which they struggle for possession of the soil. In general, in this course, the seed plants are chiefly employed for illustration and experiment, but the other groups are freely drawn upon, and the general way in which the different groups are related to one another is shown in an elementary manner. Text, parts I and III of Principles of Botany, by Bergen and Davis.

17. Elementary Botany II. This course covers the elements of morphology, physiology, and ecology. All of the great groups of plants are taken up and discussed in the order of their evolutionary development. Especial attention is given to the changes in structure which appear in response to changes in environment. Emphasis is laid upon the plasticity and adaptiveness of the plant organism. By grasping this fundamental conception at the outset, the facts of plant life, particularly studied in hortculture and agriculture, become more comprehensive and significant. A general study of the classification of the plant kingdom, sufficient to enable the student to understand the broad outlines and the relationships of the great alliances secured in this course, and, by coming into close contact with plants as living organisms in their natural habitats, he becomes acquainted with the factors that regulate their life and activity. Coulter's Text-book of Botany is used.



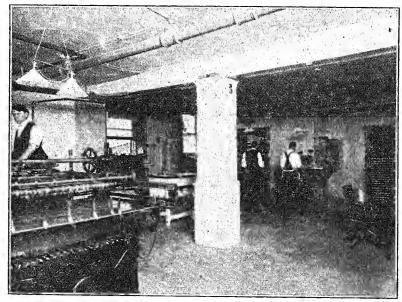
Composing-room.

Laboratory.—This course is designed to give the student a practical and personal knowledge of both the gross and miscroscopical morphology of the great groups of plants as studied in the classroom. This is done in order that he may see with his own eyes the relation of form to function, the progressive development in complexity and specialization of organs as he proceeds from the lower to the higher groups of plants, and to train his mind and eye in correct and careful observation. Each student will therefore dissect, draw and describe representative plants from the principal classes of the plant kingdom. Use will be made of a complete equipment of dissecting and compound microscopes and other necessary dissecting tools. The materials called for are a drawing tablet, a hard pencil and a simple hand lens.

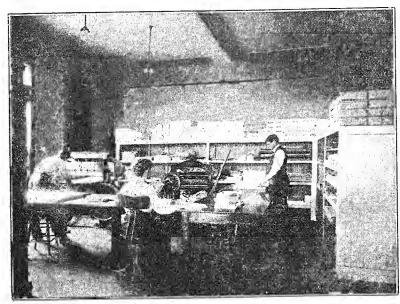
18. Other Branches of Study. Instruction is also given in spelling, reading, and writing.

PRINTING.

"The art of printing touches every phase of human endeavor." The printer comes in contact with persons in every walk of life. To be capable he must not only know the rudiments of the mechanical side of the art, but must be well versed in English, science, and biologic subjects. He must study the local conditions of the community in which he lives, must reason national affairs, must be able to write upon and discuss all subjects of public interest, and do it fairly and without prejudice; in fact, should be a "molder of public opinion." The printing-office is a schoolroom, and the modern printer and up-to-date editor should be capable of teaching those in his employ—those working under him. He should also be an artist. The mere mechanical tool in a printing-office is of little value to his employer and of no benefit to the community. Regarding printing a prominent state officer once said: "Printing, the 'art of arts preservative,' the art that has done more to civilize and Christianize the



Press-room.



Stock room.

world than all else combined." Hebe Wells defines a printer as follows: "A sticker of type, a spreader of ink, a master of press, a man who can think."

In the printing course is taught not only the every-day work of an office, but it includes English, history, public speaking, chemistry, psychology and economics. The student is given laboratory work in carpentry and machine-shops, that he may the better care for and handle the machines under his care and be able to do much of his own repairing.

He is taught to handle gasoline-engines and electric motors.

In the printing course practical instruction is given in all the work of a printing-office. The intent of the course is to fit a person to successfully manage a country printing-office, including the editing and all the mechanical work. Practical instruction is given in all lines. The variety of work handled in the College printing department gives a wide range for instruction and practice. Straight composition, distribution and correcting proofs are first taken up, and punctuation is taught while the student is having his practice work at the case, thus giving opportunity to apply the classroom instruction in punctuation. One term of reportorial work is given during the second year of the course.

During the junior year a second term is given in reportorial work and one term in editorial writing. Editing copy follows, with two terms of proof-reading. In the composing-room, ad. and job composition and distribution, make-up and imposition and job lock-up are taken up. This is followed with estimating jobs, and work in the press-room, at cutting stock and running job-presses.

stock and running job-presses.

Further instruction on the job-presses is given during the senior year, together with trimming and tabbing, the study of methods and management, quality, sizes and weights of paper, and the care of rollers. Two terms of sixteen hours per week each are given to cylinder press work.

The graduate year treats on tabular work, color composition and presswork, advanced editorial work and ad. writing, besides giving much time to specialize in any branch of the art. Those showing sufficient proficiency will be allowed to take up the technical work of the graduate



Folding and mailing room.

year during the first years of the course, but no special degree will be issued until all the work of the year is completed.

The College operates a well-equipped printing-office, consisting of 36 cases of six-, eight- and ten-point body type; 150 fonts of job-type, all in series and in cabinets; imposing-stones, etc.; a Babcock Optimus double-revolution cylinder, two Chandler & Price Gordons, a Monitor stitching-machine, a Rosback perforator, and a punching and round-cornering machine. Individual electric motors are used, and students are expected to take care of machines and motors and make slight repairs. Instruction in this line is included in the course, and is taught in the engineering departments.

It is not expected that at graduation a student will be an expert in any line, but he will have a broad foundation upon which to build, and will be far better able to cope with the problems of life than would be possible otherwise. The course leads to the degree of bachelor of science, and when the graduate goes out with a well-balanced education and a technical training such as he shall have received he will find little difficulty in reaching the height of his ambition if he follows the motto of our state, "To the Stars Through Difficulties."

PUBLIC SPEAKING.

There is perhaps no study of wider application and of more immediate benefit to the student than that of vocal expression. It helps him in his other studies. Every recitation affords him an opportunity of practically applying the rules and principles of correct expression, and, what is of still greater value to him, he soon discovers for himself the fundamental principle that proper expression is always the result of a thorough comprehension of the thought. Shallowness and inaccuracy are almost wholly due to defective reading. For this reason, students are encouraged to form the habit of mentally paraphrasing whatever they

read, to the end that they may grasp every detail, relationship, contrast and purpose contained in the subject-matter. This habit, when formed,

leads to accuracy of scholarship in any line.

It is not intended that this department should afford an extended course in elocution. There is no intention of fitting students for the stage or platform as professional readers. It may be safely affirmed, however, that the course here offered, taken in conjunction with correlated subjects in the department of English, will prepare the student in this line

for all the ordinary demands of an active and useful career.

1. Public Speaking I. Five hours per week. Required in the second year of all courses excepting the veterinary, domestic science and art and general science courses, where it is given in the third year. In this general science courses, where it is given in the third year. In this course the first half of the term is devoted to a study of the fundamental principles of vocal expression, tone qualities, pitch, inflection, force, time, grouping, transition, climax, etc. Exercises in pronunciation, articulation, and breathing. This is followed after mid-term by platform work before the class. Each student is required to make a vocal interpretation of the class. pretation of as many selections from literature as the size of the class will permit. He is expected to apply the principles of expression previously studied and learned, subject to the criticism of the instructor and the class. Exercises in extemporaneous speaking and in the delivery of original productions are also given. So far as fundamentals are concerned, instruction is based on Chamberlain and Clark's Vocal Expression and Literary Interpretation.

2. Public Speaking II. Five hours per week. Required in the second year of the course in printing, and in the graduate year of the following courses: Agronomy, animal husbandry, dairying and horticulture. Elective in others. The work in this course is an amplification of public speaking I. Selected orations of note are studied as models, critically analyzed and interpreted. Most of the time is devoted to platform work and to the delivery of original productions prepared for assumed occasions such as are likely to arise in the student's life subsequent to his

college career.

VETERINARY SCIENCE.

The course in veterinary science is designed to prepare the student for a professional career and thoroughly equip him for the work. eral studies included in the course all intend to broaden his ideas, the better to fit him for his duties as a citizen, giving him the opportunity of raising himself in the social life equal in standing to that of the human physician. The agriculture students receive a special course of training in the line of practical nursing, hygiene, the use of domestic remedies, and a general knowledge of the diseases of animals and how they can be prevented.

ANATOMY.

A very thorough and accurate knowledge of anatomy is absolutely essential to every veterinary student, for here he learns one of nature's machines with which he is to work, and every intricate part of it must be thoroughly understood.

Experience teaches that when this subject is well mastered it economizes the subsequent efforts of the student and renders the work dependent upon it clear and easily understood, thus giving the student time to energize in other directions, and, best of all, to think and reason for

himself, instead of memorizing.

An entirely new method of anatomical instruction was inaugurated last year, hitherto untried in any school of human or veterinary medicine, and its success was so marked it will become a permanent feature. Instead of following the old custom of starting with the easiest bone—the scapula in veterinary and the femur in human medicine-and then studying all the bones, all the ligaments, all the muscles, followed successively by all the vessels and all the nerves, this department follows the zoölogical basis, and anatomy I and dissection I take up the bones of the trunk; that is to say, the vertebræ, ribs, sternum and pelvis. No additional bones are taken up at this time, thus giving no opportunity for the monotony of "dry bones" to discourage and decrease the interest of the students. The ligaments which hold these bones together are next taken up, and this followed immediately by the muscles of the trunk which enclose the abdominal and thoracic cavities. The student is now ready to fill in and properly locate and thoroughly study the important organs in these two cavities. This is immediately followed by the blood supply to nourish these organs, and this by the nerve supply controlling them, including the spinal cord; the vessels and nerves being carried to their point of exit from the trunk.

It is frequently found that the ordinary high-school physiology has compelled the pupil to make a mental picture of certain structures he never saw, and unfortunately the picture is often wrong. After the completion of anatomy I the student has actually seen and dissected every essential organ in its gross features as well as those bordering on the microscopic, and is now thoroughly prepared for histology, after which he is ready for the physiology, or the functions of those organs and the minute cells that compose them.

The limbs, whose main function is locomotion, and the head and neck, are usually in need of surgical rather than medicinal interference, therefore require an extremely accurate knowledge of the parts, and when brought closer in time to the study of surgery its practical application clinches the essential facts for all time.

The text will be systematic outlines and McFadyean's Osteology and Anatomy of the Horse. Strangeway, Chauveau, Share-Jones and Leisering are used as reference-books. By mutual consent, the dissection by one class occurs every morning from seven A. M. to half-past eight, thus giving opportunity to higher classmen who desire to specialize in anatomy a chance to review and to demonstrate by working with and valuably assisting the under-classmen.

Before actually dissecting the ligaments and muscles of any part the student is required to study them upon a mounted skeleton, thus ascertaining the exact points at which they attach to the bones. The sudent then goes over the same muscles on the Azoux model, afterwards dissecting with advance knewledge and proving the facts learned. A perfect picture is thus acquired.

The dissecting-room is located in the basement of the new veterinary building, and possesses the best of sanitary and other equipment. Special dissections, quizzes, recitations, and an Azoux model of the horse, costing \$900, are used in the classroom. Mounted skeletons and loose bones are abundant in the museum.

Anatomy I is given the fall term of the second year, and consists of supplemental lectures, demonstrations and quizzes upon the bones, ligaments, muscles, splanchnology, angiology and neurology of the trunk, including the introductory work to each of these divisions of systematic anatomy.

Dissection I. Fall term, second year. Includes a thorough and satisfactory dissection of all the structures indicated in anatomy I. The student must make at least three complete dissections of the trunk.

Histology I. First term, second year. This course consists of lectures, recitations and illustrations with the lantern of normal tissues. Starting with the cell, epithelial, connective, muscular and nervous tissues, peripheral nerve endings, circulatory and lymphatic systems, mucous membranes and glands, and the digestive tract. Text, Normal Histology, Piersol.

Laboratory.—Each student is furnished with a miscroscope, and receives a course in microscopy. After this he must prepare material for microscopical examination from all tissues as they are taken up in the recitation. Also, he must make and return drawings of these tissues.

Anatomy II. Every other day during the winter term, second year. Consists of a review of anatomy I and of lectures, demonstrations, and quizzes upon the bones, ligaments, myology, angiology and neurology of either the anterior or posterior limb, the class being divided into two sections. The student is required to pass one perfect examination upon the origins and insertions of all the muscles dissected, and is marked not upon how near perfect, but upon whether it was accomplished in the first, second, third or fourth trial.

Dissection II. Winter term, second year. Consists in a laboratory study of the bones, and a dissection of the ligaments, muscles, vessels and nerves of the fore or hind limb.

Histology II. Second year. This course must be preceded by histology I. It takes up the study of the urinary, reproductive and respiratory organs, skin, central nervous system, eye, ear, and nasal mucous membranes. Text, Normal Histology, Piersol.

Laboratory.—This work is a continuation of the previous term. The student takes the tissues from the normal animal, hardens, embeds, sections, stains and mounts them upon slides, after which he examines them with the microscope and makes drawings. The slides made by the student are retained by him, thus giving him normal tissues to which he can refer in his study of pathology and later in his practice.

Physiology. The instruction in general physiology consists of the consideration of the composition of bones, blood, lymph, and all secretions of the body, with their functions; the functions of tissues and glands, together with their microscopic structure; also the structure and functions of the digestive tract, respiratory tract, and skin. In order that the student may more fully understand the class work, a laboratory course is offered, consisting of two hours a week, in which the student is required to dissect small animals; also study the microscopic structure of all the glands of the body. The laboratory is equipped with skeletons, papier mache manikins, and models of the eye, ear, etc.; also with both high- and low-power microscopes for each student. Text-book, Thornton.

Comparative Physiology I. Second term, second year. Must be preceded by anatomy I, chemistry I and physics I and II. This course treats of the physiology of the domestic animals, starting with the study of the blood, heart, blood-vessels, respiration, digestion, liver and pancreas, absorption, ductless glands and internal secretions, skin, urine and nutrition. Text, Manual of Comparative Physiology, F. Smith.

Anatomy III. Every other day, spring term, second year. Deals with the limb not studied in anatomy II.

Dissection III. Spring term, second year. Consists of a dissection of the limb referred to in anatomy III.

Comparative Physiology II. Third term, second year. Must be preceded by comparative physiology I, of which it is a continuation, treating of animal heat, the muscular and nervous systems, the senses, locomotor apparatus, the foot, generation and development, and the chemical constituents of the body. Text, Manual of Veterinary Physiology, F. Smith.

Laboratory.—This course consists of physiological and chemical experiments with the digestive juices, chemical analysis of urine and bile. The student will take up the study of the phenomena associated with the respiratory, muscular, nervous and circulatory systems, and make the graphic records.

Pathology I. Third term, second year. Must be preceded by courses I and II of histology and physiology I. This course treats of general pathology, congenital and acquired diseases, disturbances of nutrition, circulation and metabolism, retrograde changes and necrotic processes, repair and new formations. Text, Comparative General Pathology, Kitt.

Anatomy IV. Fall term, third year. Deals first with the osteology of the head and neck, followed by the muscles of the head and neck, after which the angiology and then the neurology, including the brain, is considered.

Dissection IV. Fall term, third year. Consists of a very thorough laboratory study of the bones of the head, collectively and individually, special reference being given to the teeth, sinuses, cavities and foramina. The cephalic muscles are then dissected, after which the cephalic vessels and cranial nerves are dissected, together with the brain.

Pathology II. First term, third year. Must be preceded by pathology I. This course consists of lectures, recitations, and illustrations with the lantern of pathological tissues of spleen and lymphoid tissue, digestive and genito-urinary tracts and the circulatory and respiratory systems.

Laboratory.—In this the student must examine with the microscope, and make drawings of, the tissues studied in pathology I and II, from the slides which will be furnished. He must take tissues from all animals upon which post-mortems are held, harden, embed, section, stain, mount, and make drawings. All such slides are retained by the student.

MATERIA MEDICA.

This includes materia medica proper, pharmacy and therapeutics; materia medica and pharmacy extending through the junior year, with therapeutics in the winter-term graduate. The student is taught the physical and chemical characteristics of drugs, their physiological and therapeutic actions. The course is both practical and theoretical, preparing the student to use the therapeutic measures at his command in a rational manner. The actions of the more important drugs are studied throughout the course in medicine, surgery, and general clinic.

Materia Medica I. Third year, fall term. The student is taught the definitions of the science, the mode of actions of drugs, and their indications. Comparative action of drugs on various animals, doses and the time of administration are thoroughly discussed. Drugs acting on the digestive system; drugs acting on the circulation, blood, heart, and bloodvessels; drugs influencing the brain, spinal cord and nerves, and drugs acting on nerves of special sense; drugs acting on the respiratory organs, the urinary organs, the sexual organs; drugs influencing metabolism and bodily heat; drugs acting on the skin; drugs which destroy micro-organisms and parasites.

The inorganic agents which are more commonly used in medicine are thoroughly studied, including their action upon the different animals, external and internal; the source, character and indications of the drug, the preparation of each, and the dosage. The student becomes familiar with the drug and its action in the hospital, where we have occasion to demonstrate the use of nearly all drugs studied. Must be preceded by comparative physiology II. Text, Winslow.

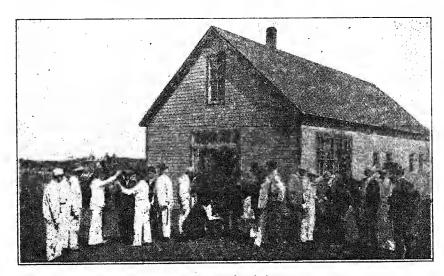
CLINIC.

The work in this department extends throughout the junior and senior years and during the graduate year. In the general course in clinic special attention is given to the practical application of the knowledge acquired in the various classrooms and laboratories during the first two years. A special line of work is outlined for the students taking the graduate year. The amount of time required daily for the clinic is limited only by the amount of work on hand. During the past year the number of cases averaged something over twenty patients per week. The patients are treated by the professor in charge, assisted by senior students and others who have shown proficiency in their work. At the daily clinic both medicinal and surgical cases are examined and treated. The clinic is divided into hospital, transient, and out-clinic. At the hospital clinic patients are treated hourly or daily as the case demands, some remaining several days or months, while the transient clinic cases are given treatment and then discharged. The out-clinic consists of the treatment of patients which are unable to be brought to the hospital. Accompanied by one of the professors, the students are conveyed to the patient, taking with them such apparatus, drugs and instruments as are deemed necessary. In this work the student is brought into contact with actual practice.

At the beginning of the course in clinic each student is required to become familiar with the names of all the instruments, appliances, etc.,

that are used in the treatment of patients.

The student equipment for the clinic consists of white suits, fever thermometer and a few of the more common surgical instruments, the clinic being conducted the same as laboratory work in other departments. Specially designed blank sheets are furnished for this work. When assigned to a patient the number of the case is taken by the student from the hospital register; also the owner's name, his address, the species, age, sex and color of the patient, and the date when the animal arrived. The student next obtains the history of the case from the owner, also the exciting or predisposing causes, previous treatment and symptoms. After the student has completed his examination he makes his diagnosis and prognosis as near as possible. All of the above data are carefully recorded on the assigned sheets. The patient is now brought before the entire class in clinic and a thorough discussion takes place, at which time the prominent symptoms of the disease are brought out, thus making the work a valuable object-lesson. The professor in charge of the case prescribes and administers treatment, assisted by the students assigned to the patient. When treatment is begun a careful record is made by the student of all appliances used, as well as the drugs that are administered, the quantity used, frequency of administration and method employed. This record is made daily for all hospital cases, in order that employed. This record is made daily for all hospital cases, in order that the development of the disease may be noted from the outset, the record consisting of the day's treatment, the condition of patient as improved or unimproved. In acute cases the record is made hourly if necessary, and the condition of the patient noted before a second dose of medicine is administered. When a patient is discharged from the hospital a record of its condition at that time is made as cured, improved or unimproved. The above records are of value to the student after the completion of his course, enabling him to successfully treat similar cases upon his own responsibility. In addition to the record kent by the student he is reresponsibility. In addition to the record kept by the student, he is required to consult treatment of all cases entered in the department hospital record. This enables the student to familiarize himself with the treatment of all the patients in the clinic.



Veterinary hospital.

Anatomy V. Winter term, third year. Consists of a correlation review of the entire subject, after which a comparative study of other domesticated animals is taken up.

Dissection V. Winter term, third year. Consists in a complete dissection of the horse, preceded by regional and flap dissections of the principal operation areas. Other animals are also dissected.

Materia Medica II. Third year, winter term. This work is a continuation of materia medica I. The time is devoted more especially to the vegetable drugs used in medicine; their source, actions, dosage; alkaloids, tinctures, fluid extracts, solid and powdered extracts; and the indications for these different forms in diseases of the lower animals are thoroughly discussed, and, so far as practicable, demonstrated in the regular clinic. Prescription writing receives attention throughout the whole course in materia medica.

VETERINARY MEDICINE.

The study of medicine extends throughout the last two years of the course and the first two terms of the graduate year, and is taught by lectures and recitations, supplemented by practical demonstrations in the clinic. An exhaustive study is made of Doctor Law's Veterinary Medicine, the five volumes being used as a text. The student familiarizes himself in the daily clinic with nearly all the diseases met in an ordinary practice of veterinary medicine, thereby becoming thoroughly conversant with their causes, symptoms, diagnosis, treatment, and prognosis. A special course in lameness and shoeing is given to seniors. Contagious diseases, parasitism and sanitary science are included, giving the student a thorough knowledge of the practical as well as theoretical phase of the subject.

Each student, before entering the senior year, must be proficient in diagnosing and treating the more common diseases and be able successfully to prepare and administer medicines in all forms. During the year just passed upwards of 500 different cases have been treated in the general clinic, in which the students have had a practical part, many of them treated by the student alone. This work inspires confidence, and the knowledge thus gained is indelibly fixed upon the student's mind.

Medicine I. Third year, winter term. Introducing the student into the study of internal medicine, followed by a comprehensive study of the diseases of the respiratory and circulatory organs, of the blood-vessels and lymphatic system in all domestic animals; special stress being placed upon the various causes, the symptoms, the diagnosis, prognosis, and treatment, and tissue changes of the organs in these diseases.

SURGERY.

The veterinary hospital and daily clinics furnish an abundance of material for the course in surgery. Senior students are assigned to the major operations for diagnosis and treatment, under the supervision of the professor in charge. The student is therefore given the opportunity to put into practice the principles acquired in the recitation. This gives him confidence to perform similar operations upon his own responsibility. The junior students are assigned to cases as assistants to the seniors, performing such work as helping in the restraint of animals, preparing fields of operation, and the daily dressing of cases after the operation. The senior performing the operation is given special charge of the case.

The senior performing the operation is given special charge of the case. A special course in dentistry is offered, owing to the numerous diseases of the teeth in horses. The course is given by lectures and laboratory work in connection with the general surgical clinic. In the lectures special attention is given to the structure of the teeth, their location in the jaws, their growth and replacement, diseases and irregularities of the teeth, and how to treat them. A practical demonstration of the work pursued in the lectures is given in the dental clinic, where each student receives personal instruction in the use of each dental instrument. The surrounding country affords an ample number of cases to illustrate cut-

ting elongations, floating, extraction, repulsion, and trephining. Before passing the subject each student is required to become reasonably proficient in all the ordinary dental operations.

Surgery I. Third year, winter term. The course in surgery is given by recitations and hospital work. In the beginning, the students are given a preliminary course on surgical restraint (the means of controlling animals), the use of anesthetics, antiseptics, etc., general principles in healing wounds, controlling hemorrhages, administration of medicines, bandaging, massage, etc.

Medicine II. Third year, spring term. During this term the diseases of the digestive organs in all the domestic animals are studied. This also includes the diseases of the liver, pancreas, and spleen. Special stress is laid upon the different forms of indigestion, colics, their causes,

differential diagnoses, and treatment.

Surgery II. Third year, spring term. This course considers minutely the causes, symptoms, prognosis and treatment of the surgical diseases of the head, nose, nostrils, salivary glands, face and lower jaw, ear and gutteral pouches, skull, neck, larynx and trachea, thorax, abdomen; surgical diseases of the stomach and bowels, urinary organs, posterior portions of the rectum and anus, male and female organs of generation. Text-book, Möller.

Pharmacy Laboratory. Third year, spring term. In the laboratory course of pharmacy the student is given a thorough drill in the pharmaceutical processes, the different official preparations and methods of preparing them, the non-official preparations which are used in veterinary practice. The incompatibility of drugs, chemically, physically, and physiologically, are demonstrated in the laboratory and hospital. A thorough drill in prescription writing, measures and weights is given, and the preparation of the tinctures, fluid extracts and powdered extracts of those drugs most commonly used in veterinary practice receives considerable attention. The student is required to compound prescriptions used in the College practice, make boluses, blisters, liniments, etc., and has a thorough course in the identification of drugs in their different forms.

Medicine III. Fourth year, fall term. A thorough discussion of the diseases of the urinary and generative organs, skin, eye, and nervous systems, also constitutional diseases, occupies the attention of the student in this session.

Surgery III. Fourth year, fall term. This course is a continuation of surgery II, and includes a complete study of the surgical diseases of the spinal column and pelvis, the fore and hind limb. Text-book, Möller.

Physical Diagnosis. Senior year, fall term. This course is given special prominence in order to familiarize the student with the normal location and action of those organs most subject to disease. The student here becomes so thoroughly familiar with normal conditions that he can at an instant recognize any deviation therefrom and at once locate the trouble causing certain symptoms.

Medicine IV. Fourth year, winter term. A continuation of medicine III, with a review of medicine I and II, and including parasitism.

Surgery IV. Fourth year, winter term. This course is devoted to the subject of lameness and horseshoeing, and specially considers the following subjects: The horse's foot in relation to shoeing, the structure and functions of the foot, and the shoeing of diseased feet and of lame horses. Text-book, Dollar's Handbook of Horseshoeing.

Infectious Diseases. Fourth year, spring term. This includes the infectious diseases, sanitary science, and police. A thorough drill is given in the more common infectious diseases: Tuberculosis, Texas fever, glanders, hog-cholera, rabies, contagious abortion, anthrax, influenza, and distemper. The methods of diagnosis, control, and eradication, and the laws governing general and special contagious diseases are dwelt upon minutely.

Medicine V. Fourth year, spring term. The work in this department prepares the student for municipal inspection and general sanitary work. The course considers a general discussion of meat inspection, the food of animals, the inspection of animals before slaughter, method of slaughter, and inspection of slaughtered animals. The normal appearance and differentiation of meat and organs of different animals; abnormal physiological conditions which possess sanitary interest; general pathology of food animals from the standpoint of sanitary police; postmortem alterations of meat; preservation, adulteration, and the effects of different diseases on meats; parasites and parasitism in general as related to sanitary work; a discussion of the laws regulating the inspection of meat and meat-producing animals in the United States as well as foreign countries. Text-book, Ostertag.

Obstetrics. Fourth year, spring term. This course considers fully the obstetrical anatomy, physiology and pathology. All of the physiological functions as well as the diseases and accidents of gestation and parturition are considered. The diseases of the young are thoroughly discussed. Text, Fleming.

Hematology. Fourth year, spring term. In order to understandingly study internal medicine a thorough knowledge of the blood is necessary. In this course the student is given a drill in the different methods of examining normal and diseased blood and the changes which take place therein during different diseases and in the different stages of the same diseases. The application of this knowledge has become an essential part of the education of every veterinarian.

Operative Surgery. Fourth and graduate years, spring term. In this course the student gives special attention to the technique of performing the various surgical operations, performed both upon the cadaver and the living subject. The abundance of clinical material in this line insures a thorough training and perfect confidence with the various surgical instruments. Text-book, Williams.

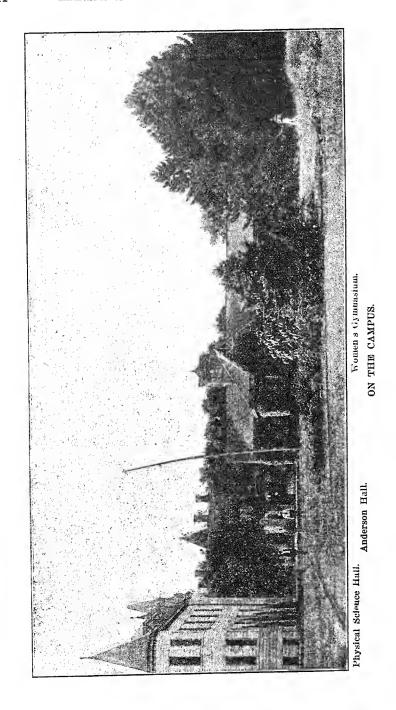
Medicine VI. Graduate year, fall term. During this session a general review of the most important work of the whole subject of medicine is given.

Meat Inspection. Graduate year, winter term. The work in this department prepares the student for the government civil-service examination and general sanitary work. The course considers a general discussion of meat inspection, the food of animals, the inspection of animals before slaughter, methods of slaughter, and inspection of slaughtered animals; the normal appearance and differentiation of meat and organs of different animals; abnormal physiological conditions which possess sanitary interest; general pathology of food animals from the standpoint of sanitary police; post-mortem alterations of meat; preservation, adulteration, and the effects of different diseases on meats; parasites and parasitism in general as related to sanitary work. Text, Ostertag.

Sanitary Medicine. Graduate year, winter term. The work in sanitary medicine consists of a discussion and study of the laws regulating the inspection of animals in the United States and foreign countries; the methods of controlling contagious diseases, and laws governing same. A course in veterinary jurisprudence is here taken up and the most important laws pertaining to the veterinary profession are discussed.

Therapeutics. Graduate year, winter term. This is a study of the physiological laws governing the use of drugs used in the practice of medicine. The special indications and contraindications of drugs, their methods of absorption, action, and elimination from the system.

Surgical Anatomy. Graduate year, spring term. This course consists of regional dissections of the structures involved in all major and minor surgical operations. This gives the student a general review of anatomy, laying greatest stress upon such parts as are most important to the surgeon.



THE SHORT COURSES.

There are large numbers of young people who from lack of means or time are unable to take an extended course of study, but whose usefulness in the world would be much increased by a little special training. Their earning capacity in the household or on the farm is far from what it might be, and they are thus handicapped in the struggle for a livelihood. To bring to this large portion of the "industrial classes," even in small measure, the "liberal and practical education" provided for by the organic act, the College has established certain short courses of study, with practice.

The teaching in these courses, while no whit less accurate than in the others, is upon a different plane. Taking students without scientific or mathematical training, the instruction must be more largely a giving of facts, without an elaboration of the underlying principles which the regular courses afford. The work is intensely practical. Studying such texts as any bright young man or woman can understand, receiving lectures of the same type, and putting into daily practice through industrial exercises the facts and principles learned in the classroom, the student cannot but be greatly benefited. It is hoped, too, that in many cases young people who had thought that they could not afford a four-year course will, by this taste of the advantages and pleasures of an education, be led into the regular courses.

These courses are put at the seasons of the year which seem likely to accommodate the most students, those for young men being given in the winter term, when farm work is more slack, and the young women's course being through the fall and winter. Four such courses are now offered: A dairy course of one winter term; a domestic science course of one fall and one winter term; a farmers' course of two winter terms, and a dairy course of one winter term.

REQUIREMENTS FOR ADMISSION.

Persons at least eighteen years of age and of good moral character are admitted to these courses as follows:

Persons between the ages of eighteen and twenty-one will be admitted upon presentation of common-school diploma, grammar-school certificate, teacher's certificate, or high-school diploma, or upon passing an examination in the following subjects: Reading, writing, spelling, arithmetic, grammar, geography, physiology, and United States history. Persons over twenty-one will be admitted without examination, but should have sufficient education to enable them to understand the simple text-books used, and to handle readily problems in common and decimal fractions and percentage. They will be required to attend strictly and constantly to their duties, or leave. They have the same free use of the College library that other students have. Owing to the peculiar nature of the work and to the slight degree of preparation which it assumes, students are required to be present at the very beginning of the course, and those applying later will not be admitted.

The short courses are in no sense equivalent to the long courses, and no one should take a short course who can take a whole or even a part of one of the long courses. All of the common-school, subfreshman and freshman branches are taught each term; so that it is possible for one to get nearly all subjects of the first two years by attending during the winter terms only.

DOMESTIC SCIENCE AND ART.

Short Course.

FALL TERM, THIRTEEN WEEKS.

Figures following subject indicate hours per week.	
Cooking I	15
Sewing	15
Drawing	Ð
WINTER TERM, TWELVE WEEKS.	
Cooking II	15
Home Nursing	5
Vegetable-gardening and Floriculture	10
Dressmaking	

FIRST TERM.

Cooking 1. The study of stoves, stove construction, management and fuels are the first topics considered, followed by experiments illustrating the effect of heat upon starch and proteid. The principles are then applied to the cookery of cereals, vegetables, beverages, breads, meats, soups, and simple cake mixtures and puddings. At stated intervals lectures are also given on home sanitation and household accounts.

Sewing. Pupil makes a model-book covering the full course in hand sewing, and consisting of basting, gathering, darning, patching, etc. Machine practice, drafting, cutting and making underskirt and drawers; drafting, fitting and making dress without lining. Materials for the model work will be furnished by the College. Each pupil will furnish her own material for the garments, but if sufficient proficiency is shown in making the first garment, pupils may be allowed to take orders for the others.

Drawing. The work in drawing is especially adapted to the needs of this class of students; it will consist of free-hand and geometrical drawing.

Cooking II. The work of the term is divided into three parts. Four weeks are given to the planning and serving of meals; four weeks to the study of diet in relation to disease, with the preparation of suitable food; and four weeks to canning, preserving, and making of salads, cakes, pastries and desserts.

Home Nursing. This course includes the study of the sick-room, its care and furnishings; the giving of baths, and the means of adding to the comfort of the sick. Lectures are given on personal hygiene. Weeks-Shaw Text-book on Nursing.

Vegetable-gardening and Floriculture. The first half of the term is devoted to vegetable growing. Subjects treated include the raising of vegetables for home and for market, with location, soils, manure, tools, irrigation, etc., best suited for crops grown in kitchen- and market-gardens; the construction and manipulation of hotbeds, cold-frames, and winter gardens; the growing of early and late crops, their special treatment, methods of cultivation, planting, transplanting, harvesting, and marketing; a study of varieties suitable to local conditions, and the origin, nature and methods of improvement of vegetables. The last half of the term is devoted to floriculture. Lectures in the classroom are supplemented by practical exercises in the greenhouses and gardens, treating of the propagation and culture of flowers, including the treatment of seeds, cuttings, mixing of soils, potting, repotting, watering, cut

flowers, packing, and many operations that attend amateur and commercial flower-gardening.

Dressmaking. Pupil will be taught the use of a dress-cutting system, cutting, fitting and making woolen dress. Pupil must furnish her own material, and cut and make a dress for herself.

DOMESTIC SCIENCE AND ART.

Summer Course.

FIRST SUMMER TERM, TEN WEEKS.	
Figures following subject indicate hours per week.	
Cooking I	15
Sewing	10
Floriculture	5
SECOND SUMMER TERM, TEN WEEKS.	
Cooking II	5
Household Economics	5
Dressmaking	10
Bacteriology	5
This course will begin May 17, 1910, and close July 22.	

This course was instituted to meet the needs of teachers in the public schools. Completion of one summer's work entitles to a one-year certificate to teach domestic science in the state; two summers' work entitles to two-year certificate. Only teachers now holding county or state certificates can enter these classes

titles to two-year certificate. Only teachers now holding county or state certificates can enter these classes.

The teaching follows the same general line as in the regular course, with the exception that more stress is laid upon the methods of presentation to young students. There are daily lectures and recitations on the theoretical portion and the laboratory experiments in cooking. The sewing is the same as that taught in long courses under sewing I, sewing II, sewing III, and dressmaking.

FARMERS' SHORT COURSE.

 FIRST YEAR, WINTER TERM, TEN WEEKS.

 Figures following subject indicate hours per week.

 Crop Production.
 5

 Feeds and Feeding.
 5

 Breeds of Live Stock
 5

 Stock Judging.
 5

 Horticulture.
 5

 Carpentry.
 5

 SECOND YEAR, WINTER TERM, TEN WEEKS.

 Botany.
 5

 Elementary Physics.
 5

 Farm Mechanics and Management
 5

 Diseases of Farm Animals
 5

 Grain Judging.
 5

 Blacksmithing or Traction-engines
 5

FIRST YEAR.

Crop Production. A study of the soil—its formation, types or classes, composition, characteristics, uses, physical characters, texture, purposes and problems of tillage, conserving soil moisture, warming, ventilating and draining the soil. The implements of tillage; principles in-

volved in their construction and use. A study of the plant—its relation to soil and climate; its life, growth, and propagation; its root system, principles of seed selection, preparation of seed-bed, methods of cultivation, etc. The fertility of the soil, tillage, manures, fertilizers, and rotation of crops. A study of crops by classes and varieties, as grains, grasses, corn, forage, silage, soiling and root crops; practical methods of culture—saving, feeding, and marketing. Text-book, Bailey's Principles of Agriculture.

Feeds and Feeding. The properties of feed stuffs, and their combination to secure good returns at least cost with products having the desired qualities; effect of feeds on quality of products; construction of farm buildings and appliances to secure the best returns from feed and for saving labor; a study of the feeding on the College farm. Text-book, Smith's Profitable Stock Feeding.

Breeds of Live Stock. A study of the market types of live stock; history and characteristics and adaptability of the breeds of live stock; selection and judging of live stock according to the official standards; forms as an index to qualities; practice in tracing out pedigrees. Textbooks: Plum's Breeds and Types of Farm Animals, Craig's Stock Judging.

Stock Judging. Practice work. Practice in judging chickens, beef cattle, dairy cattle, hogs, horses and sheep according to official standards.

Horticulture. General principles underlying plant growth; structure and functions of the various parts of the plants; nutrition, formation of seeds, etc.; propagation by seedage, cuttage, graftage, and layerage; environment, including the effects of temperature, light, feed and water-supply; possibilities of improvement by cultivation, training, and selection. Text-book, Goff's Principles of Plant Culture.

Carpentry. Elementary woodwork in joinery and construction, followed by general woodwork and carpentry; care and use of farm machinery; the building of frame structures, such as stables, piggeries, poultry-houses, ice-houses, and farm creameries, will be given, both by lectures and practical work.

SECOND YEAR.

Botany. The laws of plant growth which have a direct bearing upon the raising of grasses, grains, clovers, forage-plants, and weeds; a study of the common fungi that affect cultivated plants; seed testing; practical methods of farm seed-breeding.

Elementary Physics. This course is designed to give the student a knowledge of the fundamental principles upon which the various physical phenomena depend. The course does not provide laboratory practice. Numerous class demonstrations illustrate the various subjects of mechanics, hydrostatics, heat, light, sound, etc.

Farm Mechanics and Farm Management. The first half of the term will be devoted to rural engineering and farm machinery, and will include laying out of the farm, as regards the selecting of building sites, location of farm buildings, division of the farm into fields, and plans for crop rotation; the construction of buildings and works as to the principles of construction, plans, specifications and estimates of the cost of farm buildings, and the water-supply, sewerage, drainage, roads, fences, etc.

Several lectures will be devoted to the elements of machines, disclosing the property of the layer evener wheel and even

Several lectures will be devoted to the elements of machines, discussing the principles involved in the use of the lever, evener, wheel and axle, pulley, inclined plane, and wedge. The several classes of farm machinery will be taken up in their order and studied as to the principles of construction and use of each machine, and attention will be given to the operation, care and repairing of farm machinery, and to the building of machinery sheds.

During the latter half of the term, instruction and practice work will be given in keeping farm accounts, and in the application of business methods to farm operations. Economic questions relating to the employment and management of farm help, outlay for farm equipment, buildings, and improvements, the buying of machinery and marketing of crops, will receive attention. Some instruction will be given in simple questions of rural law, relating to property, deeds, leases, contracts, water-rights, line fences, notes, bills of sale, mortgages, interest, taxes, etc. Text-book, Robert's Farmers' Business Handbook.

Diseases of Farm Animals. The common ailments of farm animals are discussed, their causes and symptoms explained, and preventives and remedies suggested. Inoculation against blackleg will be performed by the student in this course.

Grain Judging. This will be a continuation of the study of crop production, and will consist mainly of work in the judging-room, in scoring corn and common cereals according to inspectors' and buyers' standards or according to recognized standards of perfection. Lectures and quizzes will be given, explaining the work in the judging-room. A special study will be made of corn in the selection of seed ears. Very few farmers will select a "good" ear of corn before they have been carefully instructed and trained to note defects and vital points. It is necessary to know the characteristics of a breed and its recognized standard of perfection before one can intelligently select breeding animals. This is true also of a variety of corn or wheat, and the improved qualities of higher protein, greater vitality and larger productiveness which may be bred into corn by careful and intelligent selection should greatly increase the value of this crop to the farmer.

Blacksmithing. Forging and welding, construction of singletree clips, wagon ironing, clevises, horseshoes, sharpening and tempering plows and tools, general repair work. Advanced work is also offered in the care and management of boilers and engines. If the student desires, he can make a forge and set of blacksmith tools to take home with him, paying only for the iron used.

DAIRY COURSE.

FIRST WINTER TERM, TEN WEEKS.

First column of figures indicates hours per week. Second column of figures indicates laboratory or industrial	hour
Feeds and Feeding. $2\frac{1}{2}$	
Judging Dairy Cattle	2
Dairy Management	4
Dairving	6
Dairy Bacteriology 2½	Ū
SECOND WINTER TERM, TEN WEEKS.	
Creamery Management	10
Boilers and Engines—laboratory	10
Dairy Chemistry	4
Hairy Bactemology 01	
Warketing Wilk	_
	2
Judging Dairy Products	2

FIRST YEAR, WINTER TERM, TEN WEEKS.

Feeds and Feeding. During the first half of the term lectures will be given on feeds and feeding dairy cattle; compounding rations to meet the needs of young, growing and mature dairy animals; forming mainte-

nance rations for the different classes of animals, and feeding according to the needs of animals giving different yields of milk. This work will be supplemented by work at the stables in feeding and keeping herd records of feeding and milk yields.

Breeds and Breeding. During the last half of the term lectures will be given on the history and origin of dairy breeds and the breeding and general care and management of dairy stock.

Judging Dairy Cattle. Practice in the use of score-cards in judging breeds and individual animals, according to the official standards. Testing and recording dairy cows for advanced registry, and tracing pedigrees.

Dairy Management. (Laboratory.) Location and construction of farm dairy buildings, dairies, shelters, and dairy barns.

Diseases of Dairy Animals. Lectures and recitations will be given on the common ailments of dairy stock, their causes, prevention, and treatment.

Dairy Bacteriology. Lectures on dairy bacteriology and the effect of bacteria on the production, handling, care, keeping qualities and healthfulness of dairy products.

Dairying. Lectures and recitations on the production, composition, handling and care of milk and cream; separating, ripening and churning cream; washing, salting, printing and marketing butter.

Laboratory.—Practice in handling milk and its products, from the time it leaves the cow until it is marketed as butter, cheese or sanitary milk, including the operation of separators, Babcock testers, aerators, coolers, sterilizers, churns, butter-workers, acid-testers, and other necessary equipments.

The remainder of this course is the same as the first year of the farmers' short course.

SECOND YEAR, WINTER TERM, TEN WEEKS.

Dairy Mechanics and Refrigeration. The first half of this course is devoted to lectures and practical work in studying and operating creamery machinery; locating and installing equipment for creameries; figuring out speeds of pulleys and shafts; operating gasoline-engines, milkingmachines, and refrigerating and ice-making plants.

Creamery Management. This includes practical work in keeping creamery records; figuring out over-runs; detecting creamery losses and unnecessary wastes; utilizing by-products of the creamery; location and construction of receiving stations, milk depots, ice-cream factories, and creameries.

Butter- and Cheese-making. This course consists of lectures on handling milk and cream on a commercial scale, including factory butterand cheese-making; operating receiving stations, milk depots and icecream factories.

Laboratory.—Practice is given in cooling and bottling milk and cream; separating, ripening and churning cream; washing, saiting, working, printing and marketing butter; preparation and use of starters; the details involved in the manufacture of cheese, from the receipt of the milk to the marketing of the finished products to the marketing of the finished products.

Boilers and Engines. Lectures and laboratory practice on the firing of boilers, care and running of engines, pumps, etc.

Dairy Chemistry. Lectures on the composition of dairy products, and the causes and control of chemical changes that take place in these products.

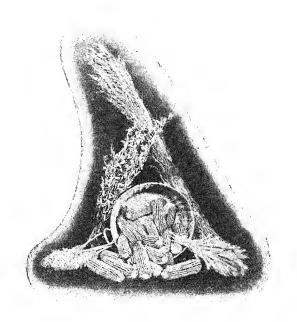
Dairy Bacteriology. The bacterial analysis of milk; lectures and practice in the preparation of media, and the bacteriological analysis of milk and other dairy products; dairy sanitation; and the general relation of bacteriology to the dairy industry.

Market Milk. Lectures and practice on the economical production of milk; operating the milking-machines, aerators, pasteurizers, coolers, bottlers, and the marketing of milk and cream. The production of sanitary, certified and modified milk for city trade.

Ice-cream Making. Lectures and practice in the manufacture of ice-cream and ices, for retail and wholesale trade.

Judging Dairy Products. Practice is given in the judging and scoring of butter, cheese, milk, cream and ice-cream.

The second year is open only to those who have satisfactorily completed the first year's course, or who have had practical experience in some branch of commercial dairying.



YOUNG WOMEN'S CHRISTIAN ASSOCIATION.

INTRODUCTORY.

I. "The world to-day is looking to the Christian for the gladness of hope; it must be found in our acts of love and mercy. His love did not break the bruised reed nor His mercy quench the smoking flax. The Christian's growth of patience marks likeness to Him, constant, overflaming love for humanity shared by all, no matter what the need or condition"—GRACE WHINEY HOPE. GRACE WHITNEY HOFF.

II. "If any of you lack wisdom, let him ask of God, that giveth to all men liberally, and upbraideth not; and it shall be given him."—Local Association Motto for 1909-'10.

The purpose of the Young Women's Christian Association is twofold: First, to instil in each girl a strong desire for a vital and practical Christian life; and second, to so train the girls in Christian work that when they are graduated they may be of service in any church or community. As the Association membership is representative of every line of College life, this future influence for good can hardly be estimated.

A large part of the work is done by nine committees, viz.: The devotional committee arranges for all religious meetings—the regular weekly one, the daily prayer circle, special Sunday meetings for which outside speakers are generally obtained, besides occasional evangelistic services. Five courses were offered in Bible study for this year, and eight in mission study, for one, two or three terms. These were taught by studyed town records. Faculty members on the general secretary. dents, town people, Faculty members, or the general secretary. Each girl attending College is earnestly invited to join a Bible class and a mission class, and she will find herself more than repaid for all the time thus spent.

The social committee arranges the various social functions for the year. The first of these is an informal reception the first Friday night after College opens, which is given in order that all College girls—new and old—may become acquainted. The largest gathering of the year occurs during the winter term, when the Young Women's and Young Men's Associations entertain identity Men's Associations entertain jointly.

In the spring term the finance committee estimates the expenditure for the coming year, and plans various means to meet these expenses, such as membership dues, subscriptions, candy and ice-cream sales, bazaars and

enteriainments. The intercollegiate committee keeps in correspondence with associations of other colleges and universities, and also attends to all Association advertising.

The lookout committee investigates all cases of illness among the girls, The Association reading rest-room is and gives care when necessary.

and gives care when necessary. The Association reading restriction as also cared for by this committee.

The membership committee aims not only to increase the number of members but also to let each girl know that she is needed for the strengthening of the Association. An invitation to join the Association as an active or associate member is extended to every girl in College. Membership with any Protestant evangelical church constitutes active Association membership.

All music—regular and special—is planned by the music committee.

All trains are met at the beginning of the term by girls wearing purple bows, and help is given in securing rooms and boarding-places.

Headquarters are at the Y. W. C. A. home, which is maintained throughout the year, and where all College girls are welcome. Girls arriving

Y. W. C. A. cabinet.



Justin, Williams, Inskeep, Eastland, Hathaway, Kirk, Burton, Peery, Cree, Heim, Carnahan, Schwab, Woestemeyer.

late in the term are invited to come directly to the house for any assistance. Here an employment bureau is conducted by the general secretary. All help is entirely free of charge.

The life in the house is made as homelike as possible for the girls by

means of informal parties, birthday spreads, "sings."

The headquarters of the Association on the College grounds are on the The headquarters of the Association on the College grounds are on the first floor, southwest corner of the Domestic Science and Art building, and these rooms are open to visitors at any hour in the day. The rooms include the general secretary's office and the rest-room, furnished with a study table, rocking-chairs and couches, where the girls may rest or study. If you need any assistance, write to the general secretary, and she will be glad to answer any questions in regard to Association work or rooming- and boarding-places. She wishes each girl to feel that she may find in her a friend—one to whom she may go any time for advice or help.

find in her a friend—one to whom she may go any time for advice or help.

Address, General Secretary Y. W. C. A., Kansas State Agricultural College, Manhattan, Kan.

CABINET MEMBERS.

MATTIE KIRK	President.
REVA CREE	Vice-president.
MILDRED INSKEEP	Secretary.
JENNIE WILLIAMS	Treasurer.
ETHEL JUSTIN	Religious meetings.
CHRISTINE HEIM	Bible study.
MARGARET EASTLUND	Social.
ELLA HATHAWAY	Missionary.
NANNIE CARNAHAN	Finance.
BERTHA SCHWAB	Intercollegiate.
Anna Perry	Lookout.
CLARA WOESTEMEYER	Music.
REVA CREE	Membership.
JESSIE R. BURTON	General secretary.
DESSIE IL DOMICINI	

ADVISORY BOARD.

Mrs. J. O. Hamilton. Mrs. E. C. Pfuetze.

MRS. A. W. ATKINSON. MRS. MARY VAN ZILE.
MISS ADA RICE. MRS. C. M. BRINK. MISS ELLA WEEKS.

YOUNG MEN'S CHRISTIAN ASSOCIATION.

"See that he (the college student) is in the fullest sense a man and a good man."—PRESIDENT ROOSEVELT.

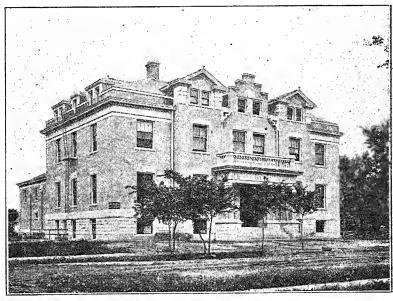
"Character is of more importance than education."—President Schurman, of Cornell University.

"The young men going to college will be the leaders of society in the future. If they leave the college as earnest Christians, they will exert good influence throughout their lives."—Hon. JAMES WILSON, United States Secretary of Agriculture.

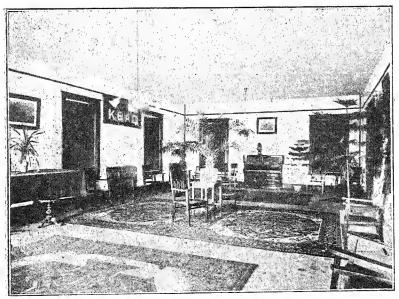
"It is a holy mission to reform a boy or man after he has gone wrong, but it is still better to save him from going wrong."—Hon. Albert Cummins, Governor of Iowa.

OBJECT. The Young Men's Christian Association is organized for service. Any young man in the College who is of good moral character may belong. Although its distinct function is religious, it is not exclusively such. Active membership is limited to those belonging to evangelical churches, while those young men who are not church members but who believe in good, clean living may join as associate members.

Headquarters. In the fall of 1903 the Association rented what is known as Park Place, situated at the corner of Eleventh and Fremont streets, and for five years this building served its purpose well. While this building has been of great service to the young men, yet it did not prove adequate to meet the needs of the Association and the student body. For five years a canvass has been carried on for a new building. This canvass was far enough along in the spring of 1907 to begin work on the



Y. M. C. A. building.



Y. M. C. A. reception room.

new building. This building has been completed, and on the 6th of May, 1908, the Young Men's Christian Association moved into their new quarters, which contain reading- and game-rooms, recreation-rooms, eighteen rooms for students' living-rooms, dining-room, and a gymnasium 42 x 70, with lockers, baths, etc. The cost of the building, complete, will be about \$35,000. This building will be open to all students. A fee of five dollars a year will be charged for the use of gymnasium and baths.

NEW-STUDENT WORK. New students are met at trains, taken to head-quarters, and assisted to find rooms. A handbook published by the two associations and containing valuable information to the new student is given to each one. At the College, in the main building, an information bureau is kept during the first few days of College. The parlors of the Young Men's Christian Association house are wide open for each new student. Every evening of the opening days special amusements are offered. A "stag" social is given to all new men on one of the first evenings of the term.

EMPLOYMENT BUREAU. Students are assisted to find work free of charge. This work is under the supervision of the general secretary, assisted by an employment bureau committee.

BIBLE STUDY. The association offers three or four Bible study courses. A regular systematic course is studied. The classes meet once a week, under student leaders. Three hundred and eighty men were enrolled in thirty different classes during the past year. A force of fifty men will prepare themselves during the summer to lead classes during 1908-'09.

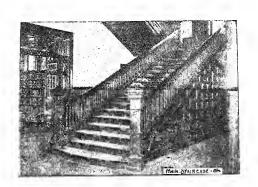
Mission Study. Several courses in the study of missions will also be offered by the Association. Many men have received a broad general knowledge of foreign lands by this study.

REGULAR MEETINGS. The Association holds its regular meetings on Thursday evenings, 6:45 to 7:30. These meetings are usually led by students, but sometimes outside speakers and Faculty men are invited to address the young men. Occasional Sunday afternoon meetings are held.

SOCIALS AND RECEPTIONS. From time to time socials and receptions are held. These serve to draw the men closer together. At the beginning of the fall and winter terms there is given a social especially planned for the new students.

CORRESPONDENCE. The Association employs a general secretary on full time. Any prospective student who desires information not contained in this catalogue may feel free to write to him.

Address, General Secretary Y. M. C. A., Kansas State Agricultural College, Manhattan, Kan.



Fairchild Hall.

GENERAL INFORMATION.

TERMS OF ADMISSION.

Persons over fourteen years of age will be admitted to the subfreshman year in any of the following ways:

1. Kansas teacher's certificate, provided no subject is below seventy per cent.

Diploma received on completion of county course of study.
 Certificate of passing the grammar grade or diploma from the high

school of any city or county.

4. Pass a satisfactory examination in the common-school branches—reading, spelling, writing, geography, arithmetic, United States history, English grammar, and physiology.

Persons over eighteen years of age will be admitted to the preparatory classes if unable to pass the common-school branches.

Full admission to the freshman year, in addition to the common-school branches, requires bookkeeping, advanced English grammar, English readings, English composition, algebra through progressions, elementary botany, ancient, medieval and modern history. (See subfreshman year.)

It is quite possible for a good student who enters somewhat behind to make up his deficiency in a year or two and graduate in four years.

All of the preparatory, subfreshman and freshman studies are taught each term, and nearly all of the sophomore subjects; so that a person may enter at the beginning of any term and find work suited to his advance-

Examinations for admission are held at the beginning of each term. Applicants at other times during the school year have special examinations. These examinations are chiefly written, and a grade of seventy per cent. at least must be obtained to pass a study.

CREDITS.

On entrance, applications for advanced standing in the course or for on entrance, appreciations for advanced standing in the course or for credits for certain studies in the courses may be made through the chairman of the committee on examinations. Students desiring credit for work done elsewhere must bring certificates and catalogues to show that the work done is equivalent to ours. The right is reserved to cancel any credits if the work of the student in succeeding branches shows insufficient representation. cient preparation.

Credit for work done elsewhere will not be given after a student has

begun the work in class.

Students entering below the junior year must present all claims for credits by the beginning of the junior year.

Students entering as juniors must present all claims for credits by the

beginning of the senior year.

Students entering as seniors must present all requests for credits at

EXAMINATIONS.

Examinations in the courses are held twice each term, as announced in the calendar. The results of the examinations, marked on a scale of 100, are combined with the grades of the preceding daily exercises into a grade for the period. Grades reported to the Secretary for record are made up by giving the mid-term record a value of one-third and the record for the last half of the term a value of two-thirds. For passing a study, the mean grade so calculated must be at least seventy. Any student receiving less than a passing grade on two or more studies may be required to drop back or withdraw from the College. Any student may receive a certificate of standing, upon leaving College at the close of a

term.

Students deficient in entrance studies must make good such deficiencies before entering on the work of the second year. Students are not catalogued in the junior class unless all deficiencies of the preceding year are provided for. Candidates for graduation must make good all deficiencies before entering on the work of the spring term of the fourth year. No student is considered as a candidate for graduation who, after the opening of the fall term, is deficient more than three full studies in addition to regular work. Extra work is not allowed to any student who failed in any branch the preceding term, or whose average grade for all branches

was less than eighty.

A student receiving less than sixty per cent. in any subject shall not be allowed a special examination in that subject, but shall be required to pursue it in class at the first opportunity. A mark of sixty per cent. or over, but less than seventy per cent. shall be called a condition. A student receiving a condition in any subject shall, in case the subject is susceptible to an examination, be entitled to take the condition examination in that subject at the time and place regularly appointed for it. He shall not take a condition examination at any other time or place except by two-thirds vote of the Faculty. It shall be the duty of the student receiving a condition, and desiring to take the condition examination, to notify the teacher of the subject not later than Thursday evening preceding the Monday of examination. Condition examinations shall be held on the second Monday of each term, for the subjects of the preceding term. A condition not made up at the first opportunity shall be changed to a failure and the student be required to repeat the subject in class.

A student receiving a condition may, in the judgment of the assignor, be assigned to dependent subjects. Should he fail to make up the condibe assigned to dependent subjects. Should be required to make up the condition at the time set, he shall be required to drop the dependent subjects and be given no grade for the work he has done. In industrial work, the instructor may withhold the grade of any student and send in a mark of deficient when the quality of the work done by the student is satisfactory but the quantity is not. A deficiency shall be made up when the student has completed the required quantity of work in a satisfactory manner. has completed the required quantity of work in a satisfactory manner. A deficiency may be made up outside of class, but shall be made up by the end of the fourth week of the term following that in which it was made, or be changed to a failure and the student be required to repeat the

subject. Permission for examination in studies not pursued with a class must be obtained from the committee on assignments, and on recommendation of the professor in charge, at least two months before the examination is held. All such examinations are held under the immediate supervision

of the professor in charge, and are thorough and exhaustive.

REGULATIONS IN REGARD TO SUBSTITUTIONS.

With the thirteen regular courses that the College now offers, most of the requirements of students are met. For one reason or another, however, students find it necessary or desirable to substitute something else for the work that their respective course would require. To place such substitutions on a systematic basis, the following regulations have been adopted by the Faculty:

1. Substitutions shall, as far as practicable, give training similar to

that of the work displaced.

2. No student shall be allowed a substitution for work in which he

has failed. 3. Unless made necessary by the acts of the Board of Regents or of the Faculty, substitutions shall not be allowed: (a) To students who are below the third year; (b) to students who have failed in any study of the two terms' work immediately preceding; (c) unless arranged for in advance.

4. Students desiring to substitute other work for any requirement in their respective courses of study must present written requests to the committee on substitutions.

5. When a request for substitution is made by any student, the committee on substitutions shall consult with all of the professors whose work is touched by the proposed substitution, and if unable to agree with them the case shall be submitted to the Faculty.

6. All substitutions arranged by the committee on substitutions shall be reported to the Faculty by posting on the Faculty bulletin-board, and if not objected to within one week shall be reported to the Secretary for record in the students' register.

GENERAL DUTIES AND PRIVILEGES.

General good conduct, such as becomes men and women anywhere, is expected of all. Every student is encouraged to the formation of sound character by both precept and example, and expected, "upon honor," to maintain a good repute. No other rules of personal conduct are announced.

Classes are in session every week-day, and no student may be absent without excuse. Students cannot honorably leave the College before the close of a term, unless excused beforehand. A full and permanent record of attendance and scholarship shows to each student his standing in the College.

The relations of our College buildings, and the nature of the exercises, complicated as they are by laboratory work, shop practice and labor, make order, punctuality and systematic effort indispensable. The institution, therefore, offers no inducement to the idler or the self-indulgent. All who are too independent to submit to needful authority, too reckless to accept wholesome restraint, or too careless to take advantage of their opportunities, are not advised to come. The discipline of the College is confined mainly to sending away those who prove on fair trial to be of this class.

Chapel exercises occupy fifteen minutes before the meeting of classes each morning.

There are nine prosperous literary and scientific societies, which meet weekly in rooms set apart for their use—the Alpha Beta and Franklin, open to both sexes, and the Ionian and Eurodelphian for young women. The Webster, the Hamilton, the Agricultural Association, the Engineering Association and the Architectural Club admit to membership young men only.

At various times during the year the College halls are opened for social and literary entertainments for the whole body of students, or for classes. For the last ten years the students have organized and presented courses of entertainments, which have been of high value, and of moderate expense to each individual.

EARNING ONE'S WAY.

The courses of study are based upon the supposition that the student is here for study, and a proper grasp of the subjects cannot be obtained by the average student unless the greater part of his time is given to College studies. Students with limited means are encouraged and aided in every way possible, but unless exceptionally strong, both mentally and physically, are advised to take lighter work by extending the course, if obliged to give any considerable time to self-support. As a rule, a student should be prepared with means for at least a term, as some time is necessary for one to make acquaintances and learn where suitable work may be had.

The lines in which employment may be had are various. The College

itself employs student labor to the extent of about \$1200 per month, the rate paid being twelve and one-half cents per hour. This work is on the farm, in the orchards and gardens, in the shops and printing-office, for the janitor, etc. As one's ability and trustworthiness become established, more responsible and more remunerative work may be had, to a limited extent. Many students obtain employment in the town; some work for their board in families in town or in the country near the College. Labor is everywhere respected, and the student who earns his way is honored by all. He will necessarily have little time for the lighter pleasures that may be incident to college life.

EXPENSES.

TUITION IS FREE. An incidental fee of \$3 per term will be charged all students from Kansas. Students from outside of Kansas will be charged an incidental fee of \$10 per term, and an enrolment fee of \$10. Each student must present receipt for incidental fee before enrolment in classes. Rooms, board and washing are not furnished by the College. Board, with furnished room, can be procured in private families at \$3 to \$3.50 per week, or table board in student clubs from \$2.75 to \$3 per week. Furnished rooms, without board, can be obtained at from \$3 to \$5 per table. month. Some students board themselves at even less cost, and rooms for the purpose can be obtained at a rental of from \$1 to \$3.50 per month. Washing costs from 50 cents to 75 cents per dozen. Books cost about \$3 per term. Young men of the freshman and sophomore years will be required to have military uniforms costing about \$15, and the young women of the freshman year must have a physical-training suit costing about \$4. Ordinary expenditures, aside from clothing and traveling expenses, range from \$175 to \$200 per year. No institution in the state furnishes an education at less cost to the student.

BUSINESS DIRECTIONS.

General information concerning the College and its work, studies, examination, grades, boarding-places, etc., may be obtained from the President or the Secretary

Questions, scientific or practical, concerning the different departments of study or work, may be addressed to the several professors and super-

intendents.

Loans upon school-district bonds are to be obtained from the State

School-fund Commission, Topeka.

Bill: against the College should be presented monthly, and, when

audited, are paid from the office of the state treasurer.

All payments of principal and interest on account of bonds or land contracts must be made to the state treasurer, at Topeka. Applications for extension of time on land contracts should be sent to the Secretary of the Board of Regents, at Manhattan.

The Industrialist may be addressed through President E. R. Nichols,

managing editor.

Donations for the library should be sent to the Librarian; donations for the museum, to the curator of the museum.

Applications for farmers' institutes should be made as early in the season as possible, addressing Institute Department, Kansas State Agricultural College.

Applications for the publications of the Experiment Station, and general inquiries concerning its work, should be addressed to Agricultural Experiment Station; but correspondence concerning any special line of investigation should be sent to the member of the staff in charge of the work concerning which information is desired.

LIST OF STUDENTS.

GRADUATES.

GILADOA 125.
CANDIDATES FOR MASTER'S DEGREE, 1909.
Charles Doryland, B.S. '08
Harry Vaughn Harlan, B. S. '04Botany, Agronomy. Walnut. Crawford county.
Arthur Hurchel Helder, B.S. '04
Adah Lewis, B. S. '07
Atsushi Miyawaki, B. S. '07
IN COURSE LEADING TO MASTER'S DEGREE.
Michael Francis Ahearn (Mass. Agr. College)
Frank Everett Balmer, B. S. '05 A gronomy, Botany. Woodson, Rooks county.
Alexander B. Cron, B. S. '08
Jessie May Hoover, B. S. '05Domestic Science, Chemistry. Topeka. Shawnee county.
Harry Charles McLean, B. S. '08 Chemistry. Mechanics. Mankato, Jewell county.
Alma McRae, B. S. '06
Allen G. Philips, B. S. '07
IN ADVANCED COURSE NOT LEADING TO A DEGREE.
Pearle Akin, B. S. '05
Mary Margaret Cole, B. S. '05
Florence Edith Dresser, B. S. '08 German, Music. Manhattan, Riley county.
Lois Failyer, B. S. '07
Ellen J. Hanson, B. S. '07
Elizabeth F. Hassebroek, B. S. '08 German, Domestic Science. Manhattan, Riley county.
(161)

In	ADVANCED	COURSE	Nor	LEADING	TO	A	DEGREE.
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Ralph W. Hull, B. S. '08	A gronomy.
Manhattan, Riley county.	

- Helen Knostman Huse, B. S. '08..... Domestic Science. Manhattan, Riley county.
- Manhattan, Riley county.
- Faye Gertrude McConnell, B. S. '08. German, Philosophy, Domestic Science. Minneapolis, Ottawa county.
- (Mrs.) Mary Finley Ridenour, B. S. '98. . Domestic Art, Music. Manhattan, Riley county.
- Manhattan, Riley county.
- Raymond Charles Thompson, B. S. '08... Chemistry. Manhattan, Riley county.
- Walter Percival Tucker, B. S. '92...... Dairy Husbandry, Bacteriology. Manhattan, Riley county.
- Marcia Elizabeth Turner, B. S. '06..... German, Philosophy, Music. Manhattan, Riley county.
- Helen Clara Westgate, B. S. '07......Music. Manhattan, (Geary county).

SENIORS.

		SEI	NIC	$\mathbf{R}\mathbf{S}$	•
Name.					Post-office and county (or state).
Franklin Alexander Adams,					Maplehill, Wabaunsee.
Louis C. Aicher,			:	Ċ	Manhattan, Riley.
Adriano Pablo Alcazar,	•	·			Iloilo, P , I ,
M Pauhan Allaman	•	•			Kansas City, Wyandotte. Lincolnville, Marion.
M. Reuben Alleman, Clyde Harrison Alspaugh,	:				Lincolnville, Marion.
Jessie Edwina Anitz.					Manhattan, Riley.
Jessie Edwina Apitz, Ralph Armstrong,					Manhattan, Riley.
Tsabelle C. Arnott.					Blue Rapids, Marshall.
Marguerite Axtell,				•	Newton, Harvey.
Warrow Wiltson Roker	_				Marvin, Phillips.
Harvey whose Earnest, Cecil Pearl Barnett, Edward E. Bealey, Robert E. Berkeley,					Densmore, Norton.
Cecil Pearl Barnett,					Manhattan, Riley.
Edward E. Bealey,					Morrill, Brown.
Robert E. Berkeley,					Burr Oak, Jewell.
Casev II. Boneprake			•	•	Stockton, Rooks.
Charles Joseph Boyle, .					Spivey, Kingman.
Raymond W. Brink.				•	Manhattan, Riley.
Ella V Brooks.				•	Tescott, Ottawa.
Frances Langdon Brown,		•	•	•	Emporia, Lyon.
Virgil C. Bryant.		•	•	•	Cimarron, Gray. Manhattan, Riley.
Anna Wilhelmina Carlson,			•	•	Manhattan, Riley.
Etta Carlton,	٠	•	•	•	Woodsdale, Stevens.
Etta Carlton,	•	•	•	•	Manhattan, Riley.
Sarah Elizabeth Cassel.			•	•	Howard, Elk.
George Sidney Unristy, .	•	•	•	•	Oswego, Labette.
Edna E. Cockrell, Claude S. Conner,		•	•	•	Lyons, Rice.
Claude S. Conner,	٠.	•	•	•	Effingham, Atchison.
Louis Graham Cook, Marie Coons,	•	•	•	•	Manhattan, Riley.
Marie Coons,	•	•	•	• *	Manhattan, Riley.
Margaret Copley,	•	•	•	•	Belpre, Edwards.
Herman L. Cudney,	٠	•	•	•	Doipro,

Name.					Post-office and county (or state). Jamestown, Cloud. Manhattan, Riley. Cave, Gray. Esbon, Jewell. Manhattan, Riley. Manhattan, Riley. Wichita, Sedgwick. Colby, Thomas. Neenah, Wisconsin. Osage City, Osage. Simpson, Mitchell. Vliets, Marshall. Iloilo, Panay, P. I. Kansas City, Wyandotte. Claflin, Barton. Abilene, Dickinson. Manhattan, Riley. Manhattan, Riley. Wellington, Sumner. Jamestown, Cloud. Manhattan, Riley. Brookville, Saline. Jewell. Marysville, Marshall. Glasco, Cloud. Centralia, Nemaha. Topeka, Shawnee. Elk Falls, Elk. Hutchinson, Reno. Topeka, Shawnee. Yates Center, Woodson. Manhattan, Riley. Slue Rapids, Marshall. Pasuguin, Luzon, P. I. Topeka, Shawnee. Baker, Brown. Manhattan, Riley. Cawker City, Mitchell. Manhattan, Riley. Elk Falls, Elk. Randall, Jewell. Fairview, Brown. Manhattan, Riley. Manhattan, Riley. Topeka, Shawnee. Concordia, Cloud. Burlington, Coffey. Wichita, Sedgwick. Enterprise, Dickinson. Manhattan, Riley. Topeka, Shawnee. Concordia, Cloud. Burlington, Coffey. Wichita, Sedgwick. Enterprise, Dickinson. Manhattan, Riley. Topeka, Shawnee. Concordia, Cloud. Burlington, Coffey. Wichita, Sedgwick. Enterprise, Dickinson. Manhattan, Riley. Topeka, Shawnee. Concordia, Cloud. Burlington, Coffey. Wichita, Sedgwick. Enterprise, Dickinson. Manhattan, Riley. Topeka, Shawnee. McPherson, McPherson. McPherson, McPherson. McPherson, McPherson. Mashington, Washington. Independence, Montgomery. Hutchinson, Reno.
James Scott Daniels,					Jamestown, Cloud.
Curtis Lynn Daughters, .					Manhattan, Riley.
Leon Milehame Davis, .					Cave, Grav.
Ruby Fae Deaver,					Esbon, Jewell.
Lulu Holmes Docking, .					Manhattan, Riley.
Ruth E. Elliot,					Manhattan, Riley.
William L. Enfield,	•				Wichita, Sedgwick.
Wilma Dette Evans,					Colby, Thomas.
Marie Fenton,	•				Neenah, Wisconsin.
Frank E. Ferris,					Osage City, Osage.
Donald Foote,	•	•			Simpson, Mitchell.
Minnie L. Forceman,	•	•	•	•	Vliets, Marshall.
Ambrosio Gison,	•		•	•	Iloilo, Panay, P. I.
Roy R. Graves,	•	•	•	•	Kansas City, Wyandotte.
Chester W. Grizzell,	•	٠	•	•	Claffin, Barton.
Charles Marson III-in-a	•	•	•	•	Abilene, Dickinson.
Unaries Meyers maines, .	•	•	•	•	Mannattan, Riley.
Dalph Debest Word	•	•	•	•	Wannattan, Riley.
Anton Uongon	•	•	•	٠	wellington, Sumner.
Tomos William Harmer	•	•	•	٠	Manhattan Dil
Fritz F Harri	•	•	•	•	Programme Galin
Annie A Herrison	•	•	•	•	Town II Town II
Stella Hawking	•	•	•	•	Monroville Monchell
Lawrence Glenn Haynes	•	•	•	•	Glago Cloud
Alice Mahel Hazen	•	•	•	•	Controlio Nomoho
Geneva L. Henderson.	•	:	•	•	Toneka Charmoo
Thomas Newton Hill.	:	:	•	•	Elk Folls Elk
Jesse T. Hirst			•	•	Hutchinson Reno
Louise Hoffman			•	•	Toneka Shawnee
Vera E. Holloway,	• .		-	:	Yates Center, Woodson
Charles Clinton Howenstine,					Manhattan, Riley,
Grace Gertrude Hull,					Manhattan, Riley,
Wyllys Lyman Hull,					Manhattan, Riley,
Oliver William Hunter, .					Blue Rapids, Marshall.
Esteban Ibalio,					Pasuguin, Luzon, P. I.
Edith Belle Ingham,	•				Topeka, Shawnee.
William H. Irving,		•			Baker, Brown.
Charles R. Jacobus,	•	•			Manhattan, Riley.
Edith Ellen Jones,	•		•		Cawker City, Mitchell.
Edna Mary Jones,	•	•		•	Manhattan, Riley.
Elmer W. Jones,	•	•	•		Elk Falls, Elk.
Ursa Joslin,	•	•	•	•	Randall, Jewell.
Message Eldon Joss,	•	•	•	•	Fairview, Brown.
Margaret Justin,	•	•	•	•	Manhattan, Riley.
Nobuzo Kawai,	•	•	•	•	Manhattan, Riley.
Holon D. Voncent	•	•	•	•	Topeka, Shawnee.
Herry F Vices	•	•	•	•	Concordia, Cloud.
Tarry E. Kiger,	•	•	•	•	Burlington, Coffey.
Walter I Wing	•	•	•	•	Wichita, Sedgwick.
William Anthun Vina	•	•	•	•	Enterprise, Dickinson.
Carl I. Kinn	•	•	•	•	Mannattan, Kiley.
Mattie Eunice Kirk	•	•	•	•	Plana, Woodson.
Albort G Kittell	•	•	•	•	Managar, Chase.
Amanda C. Kittall	•	•	•	•	McPherson, McPherson.
David Kratzar	•	•	•	٠	Mitchell Pice
Edison Frank Kuhin	•	•	•	•	MaDhorgan MaDhanan
Grace Elizabeth Longolom	•	•	•	•	Washington Washington
David Ernest Lowis	•	•	•	•	Independence Montgomers
Joe Grigsby Till	•	•	•	•	Hutchingon Range
	•	•	•	•	ARROCHIMADOM, AUGILU.

Name.					Post-office and county (or state).
Ed. A. Logan					Manhattan, Riley.
Ed. A. Logan,	•				Manhattan, Riley. Manhattan, Riley.
Gertrude Muriel McChevne.					Manhattan, Riley.
John E. McCoy,				Ì	Cawker City, Mitchell. Manhattan, Riley.
I Marron McCray	•	•	-		Manhattan, Riley,
J. Myron McCray, Mabel Mortier McKenzie, Preston Essex McNall, . Sam A. McWilliams,	•	•	•		Solomon Dickinson.
Dreston Fasor MaNull	•	•	•	:	Solomon, Dickinson. Gaylord, Smith.
Com A MoWilliams	•	•	•		Morrowville, Washington. Manhattan, Riley.
Sam A. Mew miams,	•	•	•	•	Manhattan Riley
Eleanor March,	•	•	•	٠	Waverly, Coffey.
John Edward Martin, .	•	•	•	•	Alta Vista, Wabaunsee.
F. Herman Mayer,	•	•	•	•	Topeka, Shawnee.
Virginia Lee Meade,	•	•	•	٠	
Peter J. Meenen,	•	•	•	•	Clifton, (Clay).
Francis Burzley Milliken,	•	•	•	٠	Hill City, Graham. Burr Oak, Jewell. Burr Oak, Jewell.
Claude Moorman,	•	•	•	•	Durr Oak, Jewell.
Ross Moorman,	•	•	•	•	Burr Oak, Jewell.
Grace Morris,	•	•	•	•	Kansas City, Wyandotte. Blue Rapids, Marshall.
Effie May Morrow,	•	•	•	•	Blue Rapids, Marshall.
Lizzie Morwick,	•		•	:	Eskridge, Wabaunsee.
Margaret Ethel Moseley, .	•			•	Alma, Wabaunsee.
Guy D. Noel,					Valencia, Shawnee.
John W. Norlin,					Windom, McPherson.
Victor F. Oblefias				:	Valencia, Shawnee. Windom, McPherson. Lucban, Tayabas Prov., P. I.
Victor Emanuel Oman				•	Leonardville, Riley. Manhattan, Riley.
Myrtle Oskins.					Manhattan, Riley.
Arthur I Ostlund.				:	Clyde, Washington.
Maurice I Otevza		Ċ			Manila, P. I.
Iames Oliver Parker					Manila, P. I. Lakin, Kearny.
John Howard Payne	•	Ī.		:	Kandall, Jewell.
Vornon Poschov	•	•	Ĭ.		Darlow, Reno.
Freston Essex McNail, Sam A. McWilliams, Eleanor March, John Edward Martin, F. Herman Mayer, Virginia Lee Meade, Peter J. Meenen, Francis Burzley Milliken, Claude Moorman, Ross Moorman, Grace Morris, Effic May Morrow, Lizzie Morwick, Margaret Ethel Moseley, Guy D. Noel, John W. Norlin, Victor F. Oblefias, Victor Emanuel Oman, Myrtle Oskins, Arthur J. Ostlund, Maurice J. Otcyza, James Oliver Parker, John Howard Payne, Vernon Peachey, Claro Pendon, Harold Albert Pennington, John Buell Peterson, Hubert L. Popenoe,	•	•			
Harold Albert Pennington	•	•		i	Hutchinson, Keno.
John Buell Peterson,	•	•	•		Wichita, Sedgwick,
Trabout I Dononce	•	•	•.	•	Wichita, Sedgwick. Topeka, Shawnee.
Hubert L. Popenoe, Lulu Moore Porter, Leaffa Laura Randull,	•	٠	•	:	Holton, Jackson.
Luiu Moore Forms,	•	•	•	:	Manhattan, Riley,
Leana Laura Kandan, .	•	•	•		
Harold S. Records,	•	•	•	:	Glen Elder Mitchell.
Ernest Carl Reed, Guy Chester Rexroad, . John A. Richards,	•	•	•	•	Partridge, Reno.
Guy Chester Rexroad,	•	٠	•	•	Manhattan Rilay
John A. Richards,	•	•	•	•	Manhattan, Riley.
Ida Ethel Rigney,	•	•	•	•	Manhattan, Riley. Manhattan, Riley. Manhattan, Riley.
			•	•	Manhattan, Riley.
Alvirtis Santford Sulkeld,	•	•	•	٠	Mannatian, miley.
George Arthur Savage, .			•	•	Meredith, Cloud. Wichita, Sedgwick.
Albert Leslie Schell, Hugo Schild,	•	•	•	•	Wienita, Sedgwick.
Hugo Schild,	•		•	٠	nanover, wasnington.
Susanna Schnemayer, .	٠		•	٠	Hanover, Washington. Topeka, Shawnee. Clyde, Cloud. Malletten Pilor
Minnie Schorer,			•	٠	Clyde, Cloud.
Kathleen Selby.					Mannatian, Knev.
Malcolm C. Sewell					Hastings, Nebraska.
William Linley Shelly					Atchison, Atchison.
Esther Netta Sieder					Enterprise, Dickinson.
Elva Lucretia Sikes					Leonardville, Riley.
Myrtle Simpson.					Talmage, Dickinson.
Alice Skinner	•				Talmage, Dickinson. Topeka, Shawnee.
Por F Carriage	•	•	Ĭ.	-	Little River, Rice.
Tes Planer Ctools	•	•	•	•	Minneapolis, Ottawa.
I are Tuenite Cutaliff	•	•	٠	•	Mankato, Jewell.
Leora Juanita Sutchin, .	•	•	•	•	Overbrook, Osage.
Carrier Inc. 1811ey,	•	•	•	•	Great Bend, Barton.
Albert Leslie Schell, Hugo Schild, Susama Schnemayer, Minnie Schorer, Kathleen Selby, Malcolm C. Sewell, William Linley Shelly, Esther Netta Sieder, Elva Lucretia Sikes, Myrtle Simpson, Alice Skinner, Roy E. Spriggs, Effie Eleanor Steele, Leora Juanita Sutcliff, Randall E. Talley, George Ira Thatcher, Nellie L. Thompson,	•	•	•	•	Topeka, Shawnee. Little River, Rice. Minneapolis, Ottawa. Mankato, Jewell. Overbrook, Osage. Great Bend, Barton. Manhattan, Riley.
Nellie L. Thompson,	•	•	•	•	

Name.

Merritt Rex Tinkham,
Edwin Earl Truskett,
Caney, Montgomery.

William Fenwick Turner,
Lonnie F. Vass,
Ray Thurman Wells,
Alberta M. Wenkheimer,
Roy Wilkins,
Francis Buckner Williams,
Mario Williams,
Mario Williams,
Mario Williams,
Chloe May Willis.
Frances Odell Wilson,
Robert Wilson,
Henry B. Winter.
Manhattan, Riley.
Roy Milton Wyatt,
Carrie York,
James Walter Zabnley,
Mabel (Howell) Zahnley,
Manhattan, Riley.
Marion,
Marios.
Manhattan, Riley.
Manhattan, Riley.
Manhattan, Riley.
Manhattan, Riley.
Dwight, Morris.
Mabel (Howell) Zahnley,
Dwight, Morris.

JUNIORS.

Mollie Aldridge.
Raiffe Alvord.
Raiffe Alvord.
Aaron E. Anderson,
Cyrus J. Anderson,
Eppa Cleveland Ausherman,
Eppa Cleveland Ausherman,
Will David Austin,
Benjamin B. Baird,
Harry S. Bair'
Harry S. Bair'
Stella Louise Ballard,
Amy Estelle Banker,
Dorus Clark Bascom,
John Harrison Bender,
Willis Ernest Berg,
Ray Berger,
Grace Berry,
Hazel E. Bixby,
Roscoe Eugene Blair,
Warren Lale Blizzard,
Harley James Bower,
Gladys Anita Boyle,
Roscoe Arthur Branson,
Edwin H. Brooks,
James C. Browning,
Glenn A. Bushey,
Fred George Carls,
John R. Carnahan,
Nannie Carnahan,
Clifford H. Carr,
Charles Elmer Cassel,
Kirk P. Cecil,
Thomas E. Clarke,
Lillian Clemmons,
Thomas E. Clarke,
Lillian Clemmons,
Thomas E. Coffman,
Minsley, Edwards.
Manhattan, Riley.
Manhattan, Riley.
Nanhattan, Riley.
North Topeka, Shawnee.
Manhattan, Riley.
Minsley, Edwards.
Douglass, Butler.

Name.				Post-office and county (or state).
Name. George Samuel Croyle, Ivon laVergne Dallas, Susan Davis, Mabel Ethel Davison, Wilbur Sumner Davison, Edgar Hamilton Dearborn, Harlan Deaver, Vinton V. Detwiler, Urfa A. Domsch, William Droge, Leila Dunton, Philip R. Dunton, Martin Dupray, Margaret Camoren Eastland, Ralph Waldo Edwards,				New Cambria, Saline. Parker, Linn. Arkalon, Seward. Michigan Valley, Osage. Michigan Valley, Osage. Manhattan, Riley. Sabetha, Nemaha. Lawall Lawall
Ivon la Vergne Dallas.				Parker, Linn.
Susan Davis				Arkalon, Seward.
Mabel Ethel Davison,				Michigan Valley, Osage.
Wilbur Sumner Davison, .				Michigan Valley, Osage.
Edgar Hamilton Dearborn, .			•	Manhattan, Riley.
Harlan Deaver,			•	Sabetha, Nemaha.
Vinton V. Detwiler,			٠	Jewell, Jewell.
Urfa A. Domsch,	•	-	•	Galva, McPherson.
William Droge,	•	•	٠	Mannattan, Kney. Sabetha, Nemaha. Jewell, Jewell. Galva, McPherson. Seneca, Nemaha. Lebono Smith
Leila Dunton,	•	•	•	Lebanon, Smith. Lebanon, Smith.
Philip R. Dunton,	•	•	٠	Ash Valley, Pawnee.
Martin Dupray,	•	•	•	Russell, Russell.
Margaret Camoren Eastland,	•	•	•	Emporia, Lyon.
Ralph Waldo Edwards,	•	•	•	Stamford, Connecticut.
Robert W. Ellis,	•	•	•	Manhattan, Rilev.
Emmett Emsile,	•	•	•	Manhattan, Riley. Manhattan, Riley.
Katherine Lucy Ellisite,	•	•	•	Manhattan, Riley. Manhattan, Riley. Manhattan, Riley. Oskaloosa, Jefferson. Kansas City Wyandotte.
Manda Estas	•	•	•	Manhattan, Riley.
Maude Estes,	•	•		Manhattan, Riley.
Poro Amelia Faubian	٠			Oskaloosa, Jefferson.
Christina Fava Farouson	•	·		Manhattan, Riley. Manhattan, Riley. Oskaloosa, Jefferson. Kansas City, Wyandotte. Manhattan, Riley. Thayer, Neosho. Manhattan, Riley. Partridge, Reno. Haddam, Washington. Manhattan, Riley. Acme. Dickinson.
Tonico I. Fielding	•			Manhattan, Riley.
Lucile Mahel Forest	•			Thayer, Neosho.
Clarence Griffing Fry.	-			Manhattan, Riley.
Gilbert G. Ghormlev.				Partridge, Reno.
John Gingery.				Haddam, Washington.
Amos H. Gish.				Manhattan, Riley.
William Holman Goldsmith.				Acme, Dickinson.
Margaret Camoren Eastland, Ralph Waldo Edwards, Robert W. Ellis, Emmett Emslie, Katherine Lucy Emslie, Asbury Endacott, Maude Estes, Eugenia Fairman, Rena Amelia Faubion, Christine Faye Ferguson, Louise L. Fielding, Lucile Mabel Forest, Clarence Griffing Fry, Gilbert G. Ghormley, John Gingery, Amos H. Gish, William Holman Goldsmith, Vet D. Goodwin, Harold William Gore,				Manhattan, Riley. Partridge, Reno. Haddam, Washington. Manhattan, Riley. Acme, Dickinson. Abilene, Dickinson. Raymore, Missouri. Winfield, Cowley. Ellsworth, Ellsworth.
Harold William Gore,				Raymore, Missouri.
Paul D. Guy.		•	•	Winfield, Cowley.
Leo Roscoe Hain,		•		Ellsworth, Ellsworth.
Thomas Hall			-	Saint John, Stafford.
Vet D. Goodwin, Harold William Gore, Paul D. Guy, Leo Roscoe Hain, Thomas Hall, Hiram Barco Harmon, Carrie Olive Harris, Floyd Harrison, Ella Hathaway, John B. Hawley, F. Myrtle Hayne.				Ellsworth, Ellsworth. Saint John, Stafford. Valley Falls, Jefferson. Manhattan, Riley. Conway, McPherson. Mankato, Jewell. Manhattan, Riley. Kansas City, Missouri. Manlehill, Wabaunsee.
Carrie Olive Harris,			•	Manhattan, Riley.
Floyd Harrison,			•	Conway, McPherson.
Ella Hathaway.			•	Mankato, Jewell.
John B. Hawley,				Manhattan, Riley.
F. Myrtle Hayne,				Kansas City, <i>Missouri</i> . Maplehill, Wabaunsee.
Charles Appleton Hazzard,				Maplehill, Wabaunsee.
Christine M. Heim,				Lincoln, Lincoln.
Helen Henderson,				Topeka, Shawnee.
Thomas Elliott Henry				Meade, Meade.
Ida Viola Hepler,				Manhattan, Riley.
Harry Ellis Hershey.				White Water, Butler.
Rees William Hillis				Reading, Lyon.
William Avery Hopper,				Manhattan, Riley.
DeForest Hungerford,				Randolph, Kiley.
Ralph E. Hunt,				Marysville, Marshail.
Harley Main Hunter,				Kansas City, Wyandotte.
Archie Edward Immenschuh,				Wamego, Pottawatomie.
Gladys Eusebia Irish,*				Manhattan, Kiley.
Emma Sophia Irving,				. Baker, Brown.
Carl D. Irwin,				. Salina, Saline.
Benjamin David Jeffs,				Hutchinson, Reno.
John Ethbert Jenkins,				Manhattan, Kiley.
Charles Appleton Hazzard, Christine M. Heim, Helen Henderson, Thomas Elliott Henry, Ida Viola Hepler, Harry Ellis Hershey, Rees William Hillis, William Avery Hopper, DeForest Hungerford, Ralph E. Hunt, Harley Main Hunter, Archie Edward Immenschuh, Gladys Eusebia Irving, Carl D. Irwin, Benjamin David Jeffs, John Ethbert Jenkins, Benjamin Olaf Johnson,				. Wichita, Sedgwick.
· · · · · · · · · · · · · · · · · · ·				

^{*} Deceased.

Name.						Mankato, Jewell. Manhattan, Riley. Coffeyville, Montgomery. Oskaloosa, Jefferson. Fay, Russell. McCracken, Rush. Gypsum, Saline. Sedgwick, Harvey. Manhattan, Riley. Denison, Jackson. Esbon, Jewell. Paola, Miami. Leon, Butler. Hiawatha, Brown. Thayer, Neosho. Bendena, Doniphan. Wakefield, Clay. Haviland, Kiowa. Jewell, Jewell. Manhattan, Riley. Manhattan, Riley. Mymer, Chase. Manhattan, Riley. Walley Falls, Jefferson. Winfield, Cowley. Manhattan, Riley. Sabetha, Nemaha. Minneapolis, Ottawa. Anness, (Kingman). Soldier, Jackson. Manhattan, Riley. Winchester, Jefferson. Manhattan, Riley. Winchester, Jefferson. Manhattan, Riley. Manhattan, Riley. Manhattan, Riley. Manhattan, Riley. Manhattan, Riley. Manhattan, Riley. Hartford, Lyon. Lindsborg, McPherson. Manhattan, Riley. Hartford, Lyon. Lindsborg, McPherson. Manhattan, Riley. Manhattan, Riley. Manhattan, Riley. Manhattan, Riley. Hartford, Lyon. Lindsborg, McPherson. Manhattan, Riley.
Roy Mentzer Johnson,						Mankato, Jewell.
Ethel M. Justin,						Manhattan, Riley
Jesse A. Keeble,						Coffeyville, Montgomery
Charles B. Keers,						Oskaloosa, Jefferson
Ruth Mary Kellogg, .						Fav. Russell
Paul V. Kelly,			·		·	McCracken Rush
Roy Kilmer,						Gynsum, Saline
Elmer Kiser,					Ĭ	Sedewick Harvey
Fred Krotzer,				Ĭ	•	Manhattan Riley
Willard W. Lawton.			·			Denison, Jackson
Emma Lee,					·	Eshon, Jewell
Frank Clark Lewis		·	Ī	•	i	Paola, Miami
Albert R. Losh,						Leon. Butler
Mary Huntington Love.					Ċ	Hiawatha, Brown
Lillian May Lowrance.				·	·	Thaver Neosho
Roland Lovd.				·	-	Bendena Doninhan
John Wallace Lumb.			Ċ	Ċ	·	Wakefield Clay
Mabel E. Lungren		·	Ċ	Ċ	·	Haviland Kiowa
John R. McClung			·		Ī	Jewell Jewell
Minnie Vergie McCray.		·	•	•	•	Manhattan Riley
Mabel McDonald						Manhattan Riley
John E. McDowell					·	Hymer Chase
Clyde McKee,			·	·	·	Manhattan, Riley
Martha Mae MacLeod.			·	Ĭ.	·	Valley Falls Jefferson
Karl C. Manny.			·	·	i	Winfield Cowley
Charles L. Manshardt.			·	Ī	Ĭ.	Manhattan Riley
Roy Masheter	Ī	Ċ	·	•	•	Sahetha Nemaha
John M. May.	·	Ċ	•	•	•	Minneanolis Ottawa
Vincent Mecke.		Ĺ	•	•	•	Anness (Kinoman)
Louis B. Mickel.	•	•	•	•	•	Soldier Jackson
Jesse C. Mitchel.		Ī	•	•	•	Manhattan Riley
Robert A. Mitchel.		Ċ	•	٠	•	Winchester Jefferson
Celia Caroline Moore.			•	•	·	Manhattan Riley
Elijah Haywood Moore.		·	•	•	·	Manhattan Riley
Hurd T. Morris.		·	-	•	Ť	Manhattan Riley
Telie E. B. Nafziger.	Ċ	·	•	•	·	Partridge Reno
Ellen E. Nelson.			•	•	•	Randolph Riley
Rudolph B. Nelson.		•	•	•	Ċ	Osage Čity Osage
Selma E. Nelson.	•	•	•	•	•	Randolnh Rilay
Franklin W. Newacheck.		•	•	•	•	El Dorado Butler
Gladys Irene Nichols	•	•	•	•	•	Liberal Seward
Ida Rose Nonamaker.	•	•	•	•	•	Oshorna Oshorna
Edythe O'Brien.	•	•	•	•	•	Manhattan Riley
John Francis O'Connor.	•	• 1	•	•	•	Hartford Lyon
Carl Olson.	•	• •	•	•	•	Lindshore McPherson
Wilma Orem	•	•	•	•	•	Manhattan Rilow
William Mails Orr	•	•	•	•	•	Manhattan Rilow
Walter Osborn	•	•	•	•	•	Wayerly Coffee
Laurence Osmond	•	•	•	•	•	Great Rend Ranton
Harry Elmer Overholt	•	•	•	•	•	Tawall Tawall
Hone Olive Palmer	•	•	•	•	•	Genda Springs (Comlow)
Hazel M. Parke	•	•	•	•	•	Phillinghung Philling
Thomas Parker	•	•	•	•	•	Minnespolis Ottown
Frank Thomas Parks	•	•	•	•	•	Monhotton Pilon
M. Wasmuth Parrich	•	•	•	•	•	Atlanta Comic-
Carl Everett Deserve	•	•	•	•	•	Tongonorio I accessor
Charles Revel Ditmon	•	•	•	•	•	Monhotton Pile-
Robert Platt	•	•	•	•	•	mannattan, r.ney.
Rartha I. Dhimh	•	•	•	•	•	Ecimical December.
John Allison Dorton	•	•	•	•	•	Monhotton Dil-
oom Amson Forcer, .	•	•	•	•	•	mannactan, Kiley.

Name.						Post-office and county (or state).
Percy B. Potter, Leo Price,					•	Kiowa, Barber.
Leo Price.						Manhattan, Riley.
Edna Pugh,						Junction City, Geary.
Raymond Ramage, .						Arkansas City, Cowley.
Georgia A. Randel.						Lewis, Edwards.
Hilie Rannells						Manhattan, Riley.
Silas Milo Ransopher.						Clyde, Cloud.
George Thomas Ratliffe.						Wichita, Sedgwick.
Alvin Josiah Reed,		:				Saint Clere, Pottawatomie.
Edgar Reed,	٠	•	•	•		Culver, Ottawa,
Eva Rees,	•	•	Ť	·	Ī	Culver, Ottawa. Topeka, Shawnee.
Wray Robert Reeves,	•	•	Ť	•	Ţ	Manhattan, Riley.
Way W Popport	•	•	•		•	Valley Falls, Jefferson,
Harry W. Reppert, Hugh E. Reppert. Ross Herbert Reynolds,	•	•	•	•	•	Valley Falls, Jefferson. Valley Falls, Jefferson.
Hugh E. Reppert Ross Herbert Reynolds, Hugh Robertson Walter S. Robinson, Maybeth Robison	•	•	•.	•	•	Gypsum, Saline.
Ross Herbert Reynolds,	•	•	•	•	•	Highland Doninhan
Hugh Robertson.	•	•	٠	•	:	Highland, Doniphan. Nashville, Kingman.
Walter S. Robinson,	•	•	•	•	•	Mashville, inginan.
Maybeth Robison,	•	•	٠	•	•	Manhattan, Riley.
Harvey S. Rodebaugh,	•	•	•	•	•	Caldwell, Sumner. Newton, Harvey.
marie B. Ittemis,	•	•	•	•		C tt I Dalla Chasa
Elsie Alma Rogler, .	•	•	•	•	٠	Cottonwood Falls, Chase.
Maybeth Robison, Harvey S. Rodebaugh, Marie E. Roehrig, Elsie Alma Rogler,	•		•	•	٠	White Water, Butler.
Harold Rowe, Matah Schaeffer, John Schlaeffli, Edna Josephine Schorer	•	•	•	•	:	Hill City, Graham.
Matah Schaeffer,						Jewell, Jewell.
John Schlaeffli,						Cawker City, Mitchell.
Edna Josephine Schorer	, .					Clyde, Cloud.
Fred II. Schreiner.	•					Dorrance, Russell.
Richard Schuppert						Arrington, Atchison.
Cyrus McDonald Scott.						Arkansas City, Cowley.
August W. Seng.						Salina, Saline.
Grace Ellen Shelley.						Manhattan, Riley.
Theodore Sherrard						Winfield, Cowley.
Clara Lois Shofe	Ī	-	-	·		Manhattan, Riley.
William Preston Shuler	٠	•	Ĭ.	Ī	Ĭ.	Burrton, Harvey.
Permeld Showler	, .	•	Ť	•	·	Sterling, Rice.
(Alms) Mary Edna Sim	mo	ne.	•	•	•	Burlington, Coffey,
Churde W Simpson	шо	110,	•	•	•	Cawker City, Mitchell,
Claude W. Shilleson, .	•	•	•	•	•	Tribune Greeley.
Edward Skillman,	•	•	•	•	•	Wichita Sadawick
Edward P. G. Small,	•	•	•	•	•	Annogg Sadgwick
Richard J. Small,	•	•	•	•	•	Monhatton Riley
Luberta Smith,	•	•	•	•	•	Calbar Thomas
Pearl Smith,	•	•	•	•	•	One while Toffenson
Stanley Van Smith,	•	•	•	•	•	Ozawkie, Jelierson.
Robert A. Snider,	•	•	•	•	•	Abliene, Dickidson.
Estella Pearl Soupene,	•	•	•	•	•	Mannattan, Kiley.
Clifton J. Stratton,			•	•	•	Kansas City, wyandotte.
Matthew Castle Stromit	re,		•	•		Manhattan, Ruev.
Alden G. Strong,		•				Goddard, Sedgwick.
L. A. Sturgis,						Sterling, Comanche.
Leslie O. Tippin						Winchester, Jefferson.
Harry E. Totten						Haddam, Washington.
Cora Trimmer.						Topeka, Shawnee.
Earl Jay Trosper						Manhattan, Riley.
Foan G Troutman	·	Ĭ.	Ī			Comiskey, Lyon.
Craco Irona Tucker	•	•		·	Ī	Manhattan, Riley.
Planch Vandarlin	•	•	•	•	Ĭ	Manhattan, Rilev.
Charles C Waddell	•	•	•	•	•	Manhattan, Riley.
Dow T Wolthown	•	•	•	•	•	Newton Harvey.
Clark O Word	•	•	•	•	•	Wetmore Nemaha.
Olyge Q. Ward,	•	•	•	•	•	Ffincham Atchison
Oley W. Weaver,	•	•	•	•	•	White Water, Butler. Hill City, Graham. Jewell, Jewell. Cawker City, Mitchell. Clyde, Cloud. Dorrance, Russell. Arrington, Atchison. Arkansas City, Cowley. Salina, Saline. Manhattan, Riley. Winfield, Cowley. Manhattan, Riley. Burrton, Harvey. Sterling, Rice. Burlington, Coffey. Cawker City, Mitchell. Tribune, Greeley. Wichita, Sedgwick. Anness, Sedgwick. Anness, Sedgwick. Manhattan, Riley. Colby, Thomas. Ozawkie, Jefferson. Abilene, Dickinson. Manhattan, Riley. Kansas City, Wyandotte. Manhattan, Riley. Goddard, Sedgwick. Sterling, Comanche. Winchester, Jefferson. Haddam, Washington. Topeka, Shawnee. Manhattan, Riley. Comiskey, Lyon. Manhattan, Riley. Methor, Nemaha. Effingham, Atchison.

Name.						Post-office and county (or state).
Francis Weber,						Monument Town
moner i. wener						Chiffon III a alain ach
Georgiana Welstead				Ċ	Ĭ.	Jewell Jewell
Georgiana Welstead,				·	·	Beinre (Pawnee)
Eva May Wheeler,			Ť	Ť	•	Tyro Montgomery
Glenn Edwin Whipple,			•	•	•	Manhattan Riley
Bessie May White,		•	•	•	•	Manhattan Pilor
Burton H. Wilber,		•	•	•	•	Manhattan Pilor
Harrison Walter Wilkison		•	•	•	•	Dwicht Mannia
Jennie Williams,	•	•	٠	•	•	Mayidan Jaffanaan
Edna Leona Willis,		•	•	•	•	Manhattan Dilan
Esther S Wilson		•	•	•	•	Manhattan, Riley.
Esther S. Wilson,		•	•	•	•	Mannactan, Kiley.
Floyd E. Wilson, John Thomas Wilson, Albert Lemont Wilson		•	•	•	•	Soldier, Jackson.
Albert Lemont Wilten		•	•	•	•	winneld, Cowley.
Albert Lemont Wiltse,		•	•	•	•	Covert, Osborne.
Frederick William Winter,		•	•	•	٠	Dover, Shawnee.
Clara Mary Woestemeyer,		•	•	•	•	Bethel, Wyandotte.
Ray M. Wolfe,		•	•		٠	La Cygne, Linn.
marry K. Wood,		•		٠	•	Anthony, Harper.
William D. Wood,						Anthony, Harner
ward woody,						Caurkar City Mitchall
Florence Wyland,						Smith Center, Smith.
Florence Wyland, Wilbur W. Zacharias,						Manhattan, Riley,
Charles L. Zoller,						Kirwin, Phillips.

SOPHOMORES.

Elizabeth Aberle,					Manhattan, Riley.
Nellie Aberle,					Manhattan, Riley.
Effie Adams,					Ozawkie, Jefferson.
Roy E. Alexander, .					Bucklin, Ford
Winifred Lois Alexander,					Manhattan, Riley
H. Don Allen,		·			Larned Pawnee
John Franklin Allen					Yates Center Woodson
Roy E. Alexander, Winifred Lois Alexander, H. Don Allen, John Franklin Allen, Jessie Mabel Alvord, H. Rea Anderson.			Ċ	·	Zurich Rooks
H. Rea Anderson,				i	Manhattan Riley
Eva Alice Armstrong, J. Oliver Armstrong, William R. Austin, Corl Vanchy		Ċ	•	·	Holton, Jackson.
J. Oliver Armstrong.		·	•	•	Holton, Jackson.
William R. Austin.			·	•	Dinas Wallace
Ray Cecil Baird.			·	•	Manhattan Riley
Thomas J. Baird.	Ĭ.	·	•	•	Manhattan Dilor
Nellie M. Baker.		Ť	•	•	Marvin Philling
Ethel L. Bales.	·	•	•	•	Manhattan Pilow
Ray Cecil Baird, Thomas J. Baird, Nellie M. Baker, Ethel L. Bales, Lebbins B. Barber, William A. Barr	·	•	•	•	Junction City, Geary.
William A. Barr, Ellen Margaret Batchelor, Harry Penock Bates Myrtie Ruth Bayles,	·	Ċ	•	•	Harper, Harper.
Ellen Margaret Batchelor.	Ĭ.	Ċ	•	•	Manhattan, Riley.
Harry Penock Bates	•	•	•	•	Topeka, Shawnee.
Myrtle Ruth Bayles.	•	•	•	•	Manhattan, Riley.
Gale D. Beckwith,	•	•	٠	•	Higgs the Pro-
James W. Benner.	•	•	٠	•	Hiawatha, Brown. Manhattan, Riley.
Clara Anna Bergh	•	•	•	•	Nowton However
James W. Benner, Clara Anna Bergh, Kate Blackburn,	•	•	٠	•	Newton, Harvey.
Grace Ida Blake,	•	•	•	•	Manhattan, Riley.
David George Blattner	•	•	٠	•	Total Hadana
Alexander Thurston Rodle	•	٠	•	•	Jetmore, Hodgeman.
Ernest Roettcher	•	•	•	•	Weade, Meade.
Ernest Boettcher,	•	•	•	•	winkier, kiley.
Cynthia Bonebrake,	•	•	•	•	Stockton, Rooks.
Thomas Paul Bottiger, .	•	•	٠	•	rugmand, Doniphan.

Name.					Post-office and county (or state).
Name. Lewis Losee Bouton, Fred S. Bradford, Ruth Bright, Harrison Broberg, G. Homer Brown, John William Brown, Fred Brunker, William Brunker, Walter August Buchheim, W Van Buck					Wichita, Sedgwick.
Fred S. Bradford					Concordia, Cloud.
Ruth Bright.					Manhattan, Riley,
Harrison Broherg.					Vesper, Lincoln. Vesper, Lincoln. Wichita, Sedgwick.
Mahal M Brohere	_		_		Vesper, Lincoln.
C Homer Brown			Ť		Wichita, Sedgwick.
Tohn William Brown	•	Ī	•		Fort Scott, Bourbon.
The Dwinker	•	•	•	•	Manhattan, Riley,
Trilliam Duranton	•	•	•	•	Manhattan, Riley.
Walten Arougt Buchhaim	•	•	•	•	Fort Scott, Bourbon. Manhattan, Riley. Manhattan, Riley. Winkler, Riley. Oskaloosa, Jefferson.
Walter August Duchneim,	•	•	•	•	Oskaloga Jefferson
Tr. December				:	Naponee, Nebraska.
Marion Burniam,	•	•	•	•	Manhattan, Riley.
Mary O. Burr,	•	•	:	:	Eureka, Greenwood.
Maye Burt,	•	•	•	•	Manhattan, Riley.
Carl Baltour Butter,	•	•	•		Wichita, Sedgwick.
Ralph Morris Caldwell,	•	•	•	•	Wichita, Doug wich.
Frank Griswold Campbell,	•	•	•	•	Manhattan, Riley.
doorgan carrier,				•	Belleville, Republic.
Carlos C. Carpenter,	•	•	•		Ottawa, Franklin.
Thomas Arthur Case,	•	•	•	:	Manhattan, Riley. Great Bend, Barton.
Julia Eleanore Cheney, .	•	•	•	•	Great Bend, Barton.
Harry J. Chesebro,	•	٠			Clyde, Cloud.
Frank Griswold Campbell, Georgia Canfield, Carlos C. Carpenter, Thomas Arthur Case, Julia Eleanore Cheney, Harry J. Chesebro, Robert Vernon Christian, Lewis Caie Christie,		•		:	Iola, Allen.
Lewis Caie Christie,		•			Manhattan, Riley.
Clifton W. Clark,					Pratt, Pratt.
David Charles Clarke,					Manhattan, Kilev.
Harry K. Coe.					Topeka, Shawnee. Kansas City, Wyandotte. Manhattan, Riley.
Lester Warren Coiner.					Kansas City, Wyandotte.
Edwin Lloyd Cole.				:	Manhattan, Riley.
Harry I. Cole			•		Manhattan, Riley.
Der Dovid Coleman	-		•	•	Denison, Jackson.
Roy David Collister	•	Ĭ	•	•	Minneapolis, Ottawa.
Bernard Collister,	•	Ť	•	•	Wichita, Sedgwick.
Carlos C. Carpenter, Thomas Arthur Case, Julia Eleanore Cheney, Harry J. Chesebro, Robert Vernon Christian, Lewis Caie Christie, Clifton W. Clark, David Charles Clarke, Harry K. Coe, Lester Warren Coiner, Edwin Lloyd Cole, Harry L. Cole, Roy David Coleman, Bernard Collister, Ray F. Cooper, Winnie Cowan, Vida Mae Cowgill, Cecil Willis Creel, Walter S. Criswell, Oscar C. Crouse, William Hart Curtis, Tom J. Darrah, Bertha Davis, Percy Grover Davis, Charles Arthur Day, Fred Perry Day, Evard A. Dean,	•	•	•	:	Kensington, Smith.
Winnie Cowaii,	•	•	•		Long Island, Phillips. Manhattan, Riley. Frankfort, Marshall.
Vida Mae Cowgii,	•	•	•	•	Manhattan Riley.
Cecil Willis Oreel,	•	•	•	•	Frankfort Marshall
Walter S. Oriswell,	•	•	•	•	Harlan; Smith.
Oscar C. Crouse,	•	•	•	•	
William Hart Curtis,	•	•	•	•	McPherson, McPherson.
Tom J. Darran,	•	•	•	•	Provincial Noce
Bertha Davis,	•	•	•	•	Brownell, Ness. Brownell, Ness.
Percy Grover Davis,	•	•	•	•	One on Potternatomie
Charles Arthur Day,	•	•	•	•	
Fred Perry Day,	•	•	•	•	Monhotton Riley
Evard A. Dean,	•	•	•		Manhattan, Riley
Mabel Caroline Deibler,	•	•	•	-	Manhattan, Riley. White City, Morris. Manhattan, Riley. Hutchinson, Reno. Washington, Washington.
Russell Reuben Dodderiage,	•	•	•	•	Manhattan Piley
J. Mary Dow,	•	•	•	•	Mannatian, Kney.
Howard M. Dukelow,	•	•	•	٠	Hutchinson, Reno.
George Edward Dull,	•	•	•	•	Washington, Washington.
Verne E. Dyatt,	•	٠	•	٠	Almena, Norton. Assaria, Saline.
Goldie Georgie Eagles, .	•	•	•	•	Assaria, Saine.
J. Fred Eden,			•	•	Hutchinson, Reno.
Earl Lewis Edwards,	•	•	•	•	Phillipsburg, Phillips.
Navarre H. Edwards,	•	•	•	•	Russell, Russell.
Frank L. Eldridge,	•	•	٠	•	Topeka, Shawnee. Hymer, Chase.
Mamie G. Ellington,	•			•	Hymer, Chase.
Frederick D. Elliott,					Manhattan, Kiley.
George Elliott,	•	•	•	•	Holton, Jackson.
Bertha Davis, Percy Grover Davis, Charles Arthur Day, Fred Perry Day, Evard A. Dean, Mabel Caroline Deibler, Russell Reuben Dodderidge, J. Mary Dow, Howard M. Dukelow, George Edward Dull, Verne E. Dyatt, Goldie Georgie Eagles, J. Fred Eden, Earl Lewis Edwards, Navarre H. Edwards, Frank L. Eldridge, Mamie G. Elliott, George Elliott, George Elliott, Abner Ethan Engle,		•		•	Abilene, Dickinson.

Name.					Post-office and county (or state).
Ralph Waldo Evans, Robert Arthur Evans, Lilla Cecil Farmer, Foss Farrar,					Manhattan, Riley.
Robert Arthur Evans					Liberal, Seward.
Lilla Cecil Farmer					Ætna, (Comanche).
Foss Farrar					Arkansas City, Cowley.
Floring Elizabeth Fate.	-	Ī	-	Ť	La Cygne, Linn.
Harry Albert Fearey.	•	Ī	Ť	•	Anness Sedowick
Oliver Archie Findley		•	·	•	Anness, Sedgwick. Kiowa, (Oklahoma).
Harry Albert Fearey, . Oliver Archie Findley, . Victor Florell,	•	•	•	•	Jamestown, (Republic).
Victor Florell, Edwin LeValle Foster, . Frank William Fowler, .	•	•	•	•	Independence Mentgement
Frank William Fowler	•	•	•	•	Independence, Montgomery. Independence, Montgomery.
Stanley H Freelove	•	•	•	•	Clude Cloud
Stanley H. Freelove, Frank Erwin Fuller,	•	•	•	•	Clyde, Cloud. Clay Center, Clay.
Carrie M. Gates,	•	•	•	•	A showyillo Mitchell
Carrie M. Gates,	•	•	•	•	Asherville, Mitchell.
Pichard William Cotter	•	•	•	•	Manhattan, Riley
I Soott Cillogo	•	•	•	•	Downs, Osborne.
Hoston Clouds Claver	•	•	•	•	Mayetta, Jackson.
Welter Forl Clarer	•	•	•	•	mannattan, kney
wanter Earl Glover,	•	•	•	•	Topeka, Snawnee.
John H. Goheen, Edna Jane Grandfield, Edwin Harrison Grandfield.	٠	•	•	•	Mannattan, Riley
Edna Jane Grandheid,	•	٠	•	•	Wichita, Sedgwick.
Edna Jane Grandfield, Edwin Harrison Grandfield, Vernon L. Grant,	•	٠	•	٠	Wichita, Sedgwick.
Vernon L. Grant,	•	•	•	•	Emporia, Lyon.
Ray L. Graves,	•	•	•	•	Lincoln, Lincoln.
Vernon L. Grant, Ray L. Graves, Fred Foster Greeley, Lewellen G. Griffing,	٠		•	•	Mayetta, Jackson. Manhattan, Riley. Topeka, Shawnee. Manhattan, Riley. Wichita, Sedgwick. Wichita, Sedgwick. Emporia, Lyon. Lincoln, Lincoln. Manhattan, Riley. Topeka, Shawnee.
Lewellen G. Griffing,	٠	•		٠	Topeka, Shawnee.
Lottie Gugenhan,			•		May Day, Riley.
Otto C. Hagans,					Utica, (Lane).
Lottie Gugenhan, Otto C. Hagans, Earl Livingston Hageman,	•	•			Manhattan, Riley. Topeka, Shawnee. May Day, Riley. Utica, (Lane). Clifton, Washington.
Burt E. Haigler,			•		Lebo, Coffey.
Lewis A. Hammers,		•			Clearwater, Sedgwid
Burt E. Haigler, Lewis A. Hammers, Mabel Rea Hammond,			•		Clifton, Washington. Lebo, Coffey. Clearwater, Sedgwick Manhattan, Riley. Clay Center, Clay. Whiting, Jackson. Manhattan, Riley. Manhattan, Riley. Manhattan, Riley. Banner, Trego. Wetmore, Nemaha. Tyrone, Oklahoma. Dodge City, Ford. Morrowville, Washington. Garnett, Anderson. Larned, Pawnee.
Harry W. Hanson,					Clay Center, Clay.
Henry H. Harbecke,					Whiting, Jackson.
Ervin Harold,					Manhattan, Riley.
(MITS.) M. Franc marris.					Manhattan, Riley.
Richard Harris, Arthur Raymond Hawkes,					Manhattan, Riley.
Arthur Raymond Hawkes,					Banner, Trego.
Frank Roger Hazeltine, . Will H. Healy,					Wetmore, Nemaha.
Will H. Healy,					Tyrone, Oklahoma.
William Lauren Heard					Dodge City, Ford.
Charles Hennon,					Morrowville, Washington
Wilbur Christy Heslip, .					Garnett, Anderson.
Bertha Hewson					Larned, Pawnee.
Nellie Marguerite Hickok.					Larned, Pawnee. Ulysses, Grant. Cawker City, Mitchell.
Harrison Mayer Higley, .					Cawker City, Mitchell.
Ben F. Hillebrandt,	-	·			Osborne, Osborne,
Leva L. Hills.	Ĭ				Eshon, Jewell.
Leva L. Hills,	•	•		• .	Randolph Riley
Reuhen Hokanson	Ū	•		Ĭ	Marquette McPherson
Reuben Hokanson,	•	•	·	•	Manhattan Riley
Walter Hole,	•	•	•	•	Whiting Jackson
Ward Hollis,	•	•	•	•	Lost Springs Marion
Fred Honner	-	•	•	•	Monhotton Piler
Fred Hopper,	•	•	•	•	Manhattan Pilor
William Admia Hariak	•	•	•	•	Votos Conton Woodson
William Horis	•	•	•	•	American Tran
Edgar Houk,	•	•	•	•	Monhotton Dila-
D Dor Hall	•	•	•	•	Manhattan, Riley.
D. Kay IIII,	. •	•	•	•	Monhattan Dila-
Ruth Hull,	• • • • • • • • • • • • • • • • • • • •	•	•	•	Movidon Tofferson
	•	•	•	•	Pandalph Pilar
Clara Hungerford,			•	•	Cawker City, Mitchell. Osborne, Osborne. Esbon, Jewell. Randolph, Riley. Marquette, McPherson. Manhattan, Riley. Whiting, Jackson. Lost Springs, Marion. Manhattan, Riley. Manhattan, Riley. Yates Center, Woodson. Americus, Lyon. Manhattan, Riley. Meriden, Jefferson. Randolph, Riley.

Name.					Post-office and county (or state).
Esther Lillie Hungerford,					Manhattan, Riley.
George E. Hungerford, .					Manhattan, Riley.
William W. Hunt,					Blue Rapids, Marshall.
Mildred Huse		•			Manhattan, Riley.
Mulford Hutchinson,		•			Burden, Cowley.
Mildred Lee Inskeep,					Manhattan, (Pottawatomie)
Edward Isaac					Haddam, Washington.
Jessie Jenkins					Council Grove, Morris.
Harrie L. Jennison,					Farnsworth, Lane.
Marie Charlotte Jennrich,					Russell, Russell.
Fern Jessup					Merriam, Johnson.
Arthur C. Johnson					Healy, Gove.
Donald Jones					Wichita, Sedgwick.
Arthur L. Kahl.					Manhattan, Riley.
Emma Dorothy Kammeyer,					Manhattan, Riley.
Mahel Keats					Horton, Brown.
Edward Kellogg					Manhattan, Riley.
Willis Norton Kelly					Hutchinson, Reno.
Charles Sanger Kenmore.					Iola, Allen.
George Kernohan.					Manhattan, Riley.
Margaret T. Keys.					Winchester, Jefferson.
Ray Kiene.					Valencia, Shawnee.
James Carlisle Kimble.					Manhattan, Riley.
Coridon Berton King.					Plainville, Rooks.
Minnie Luella King.			Ċ		Lexington, Clark.
Elmer Frederic Kittell.					Topeka, Shawnee.
Clara Marie Kliewer	-		•		Newton, Harvey.
Fred V Kreamer.					Jewell, Jewell.
Ray Delhert Laffin		·	•		Goff. Nemaha.
Edward Larson			•	· ·	Vesner, Lincoln.
Robert Could Larzelere.			•	•	Wathena, Doniphan,
Hilmer H Lande	:		•	•	Rose, Woodson,
Mortin I. Laude,	•	:	•	•	Rose, Woodson.
Russell E. Lawrence			•.	•	Larned, Pawnee.
Grover Lee	•		•	٠	Pratt. Pratt.
Claire Lewallen	-		•	•	Manhattan, Riley,
Diek Lewellen	•		•	•	Kansas City, Wyandotte,
Fairr Lightfoot	•	•	•	•	Manhattan, Riley,
Long Lindeman	•	:	•	•	Formoso, Jewell.
Flya M Lindsay	•	:	•	•	Grantville, Jefferson,
Mallia Lindsay,	•	•	•	•	Manhattan, Riley.
M Fro Linn	•	•	•	•	Otis Rush
Clar Lint	•	:	•	•	Kansas City, Wyandotte.
Clark Ludington	•	•	•	٠	Manhattan Riley
DeNoil Cilbert Lyon	•	·	•	•	Manhattan, Riley.
Verm Allen McCell	•	•	•	•	Manhattan Riley
Devid I McCallum	•	•	•	•	Kansas City Wyandotte
David I. McCanum,	•	•	•	•	Rlue Mound Linn
Trank Donald McCollech	•	•	•	•	Anthony Harner
Walker M. McColloch, .	•	•	•	•	Manhattan Riley
Viva Margaret McCrossy	•	•	•	•	Manhattan Riley
Trene Sopina McCreary, .	•	•	•	•	Abilana Dickinson
Edwin McDonaid,	•	•	•	•	Stafford Stafford
Bert J. McFadden,	•	•	•	•	Indonondance Montgomery
Walter Scott McKay,	•	•	•	•	Topoleo Charmon
Charles Curtis McKiranan,	•	•	•	•	Controlia Nomaha
Arthur Earl McNell,	•	•	٠	•	Artell Morehall
Albert John Mack,	•	•	•	•	Lyone Rice
George A. Markle,	•	•	٠	٠	Orden Bilow
Joseph Francis Marron, .	•	٠	•	٠	Vences City Wyondotte
John Z. Martin,	•	•	•	•	Now Combine Coline
George May,	•	•	•	٠	Great Rend Renter
Name. Esther Lillie Hungerford, George E. Hungerford, William W. Hunt, Mildred Huse, Mulford Hutchinson, Mildred Lee Inskeep, Edward Isaac, Jessie Jenkins, Harrie L. Jennison, Marie Charlotte Jennrich, Fern Jessup, Arthur C. Johnson, Donald Jones, Arthur L. Kahl, Emma Dorothy Kammeyer, Mabel Keats, Edward Kellogg, Willis Norton Kelly, Charles Sanger Kenmore, George Kernohan, Margaret T. Keys, Ray Kiene, James Carlisle Kimble, Coridon Berton King, Minnie Luella King, Elmer Frederic Kittell, Clara Marie Kliewer, Fred V. Kreamer, Ray Delbert Laftin, Edward Larson, Robert Gould Larzelere, Hilmer H. Laude, Martin L. Laude, Martin L. Laude, Kussell E. Lawrence, Grover Lee, Claire Lewallen, Dick Lewallen, Dick Lewallen, Fairy Lightfoot, Lena Lindeman, Elva M. Lindsay, N. Eva Linn, Clay Lint, Clyde Ludington, DeNell Gilbert Lyon, Vern Allen McCall, David I. McCallum, Frank Donald McClure, Walker M. McColloch, Viva Margaret McCray, Irene Sophia McCreary, Edwin McDonald, Bert J. McFadden, Walter Scott McKay, Charles Curtis McKirahan, Arthur Earl McNeil, Albert John Mack, George A. Markle, Joseph Francis Marron, John Z. Martin, George May, Fred Christian Maybach,	•	•	•	•	dicas Deliu, Darwii.

Name.				Post-office and county (or state).
Mabel Mayhew,				Belpre, Edwards.
Nathan Melbert,		Ċ	·	Gypsum, Saline.
Nathan Melbert,	i		Ī	Concordia, Cloud.
Winona Gertrude Miller			•	Kansas City, Wyandotte
Bryant T. Millikin,		:	•	Galena. Cherokee
Joseph Arthur Monsch.	·	·	·	Manhattan Riley
Charles Bela Moore		·	·	Manhattan Riley
William David Moore.			·	Idana. Clay
Bessie Moorman,		·		Burr Oak, Jewell
Clara King Morris.			·	Wichita, Sedowick
Margaret Morris				Manhattan, Riley
Maria Morris				Manhattan Riley
Flora Harrietta Morton			i	Wichita, Sedgwick
Robert Clay Moseley				Alma, Wabaunsee.
Harold H. Munger				Manhattan, Riley
Myra May Munger				Manhattan, Riley
Karl Bryant Musser				Acme, Dickinson.
Mymie Myers,				Manhattan, Riley,
Roy M. Myers				Manhattan, Riley
Velma Pearl Myers				Manhattan, Riley,
Charles Myszka				Garnett, Anderson
Orville Nauman				Frankfort, Marshall
Marion Neiman,				White Water, Butler,
Inez Mildred Ethel Nelson				Stark, Neosho
James H. Nelson,				Ellsworth, Ellsworth
Clare Sparks Newkirk				Geneseo, Rice
Jessie E. Newland.				Bridgeport, Salina
Floyd Bruce Nichols				Buffalo, Woodson
James M. Nicholson				Scranton, Osage
J. Arthur Nicolay.				Scranton, Osage
Minnie H. Nider				Manhattan, Riley
Laura B. Nixon,				Riley, Riley,
Nellie Florence Nixon,				Manhattan, Riley
Harry M. Noel,				Valencia. Shawnee
Harold Dale O'Brien,				Luray, Russell.
David Bethel Osburn,		• .		Colwich, Sedgwick,
Earl J. O'Toole,				Oberlin, Decatur
Dora Marie Otto,				Riley, Riley,
Edward Parrish,				Rosedale, Wyandotte.
Helen Tracy Parsons,				Arkansas City, Cowley
Mary Russell Parsons,				Arkansas City, Cowley
Floyd Pattison,				Herington, Dickinson.
Dale Vernon Payton,				Manhattan, Riley,
Milton Leroy Pearson,				Cawker City, Mitchell
Anna Farrand Perry,				Manhattan, Riley
Clara E. M. Peters,				Manhattan, Riley,
Arthur Dow Phelps,				Great Bend, Barton
Bertha Ellen Phillips,				Manhattan, Riley,
Kenneth W. Phillips,				Manhattan, (Pottawatomie)
Amelia Gertrude Pierson				Manhattan, Riley.
Henry James Plumb,				Pleasanton, Linn.
Ray Hamlin Pollom,				North Topeka, Shawnee
Harvey W. Poole,		٠.	. `	Galena, Cherokee.
Russell C. Porter,				Manhattan, Riley,
Lyle Phillips Price				Republic, Republic.
Maggie Price				Manhattan, Riley
Robert Morris Prizer				Alton, Osborne
William Arthur Pulver				Mankato, Jewell
Daniel Milton Purdy				Arkansas City Cowley
Mabel Mayhew, Nathan Melbert, Edwin Darrah Carlisle Miller, Winona Gertrude Miller, Bryant T. Millikin, Joseph Arthur Monsch, Charles Bela Moore, William David Moore, Bessie Moorman, Clara King Morris, Margaret Morris, Maria Morris, Flora Harrietta Morton, Robert Clay Moseley, Harold H. Munger, Myra May Munger, Karl Bryant Musser, Mymie Myers, Velma Pearl Myers, Charles Myszka, Orville Nauman, Marion Neiman, Inez Mildred Ethel Nelson, James H. Nelson, Clare Sparks Newkirk, Jessie E. Newland, Floyd Bruce Nichols, James M. Nicholson, J. Arthur Nicolay, Minnie H. Nider, Laura B. Nixon, Nellie Florence Nixon, Harry M. Noel, Harold Dale O'Brien, David Bethel Osburn, Earl J. O'Toole, Dora Marie Otto, Edward Parrish, Helen Tracy Parsons, Mary Russell Parsons, Floyd Pattison, Dale Vernon Payton, Milton Leroy Pearson, Anna Farrand Perry, Clara E. M. Peters, Arthur Dow Phelps, Bertha Ellen Phillips, Kenneth W. Phillips, Amelia Gertrude Pierson, Henry James Plumb, Ray Hamlin Pollom, Harvey W. Poole, Russell C. Porter, Lyle Phillips Price, Maggie Price, Robert Morris Prizer, William Arthur Pulver, Daniel Milton Purdy, Oral DeEnnon Pyles, Fred Tunis Rader,				Anthony, Harner
Fred Tunis Rader.				Mayfield, Sumper

Name. Olga Raemer, Harvey Rait, Charles Ernest Randels, Earle Reaume, Carl H. Reed, Dick R. Reed, Eva Mary Reeves, Constance E. Richmond, Newell Robb, Floyd Joe Robbins, Frank Robinson, Josephine Robinson, Charles Henry Robison, Harry H. Rogers, Alvena Rhode, Harvey Roots, Franco T. Rosado, Clarence S. Ross, George Helmick Ross, Worth D. Ross, Lucile Leora Rudolph, Edwin E. Rugg, John P. Sanborn, Minnie Pearl Sanderson, Chester Schenck, Catheryn Schiereck, Ed H. Schroer, Bertha Schwab, Minnie M. Scott, Gladys Sadie Seaton, Ernest O. Sechrist, Leslie Leon Shaw, Etta Sherwood, Harry Nelson Shuler, Carrie Marietta Shumway, Edward Leon Sikes, Lewis Anthony Sikes, Merle Hudson Sims, Harry E. Skinner, Homer Sloan, Eads Edward Smith, Harlan D. Smith, Harlan D. Smith, Harlan D. Smith, Harlan Grace Soupene, Whitecomb G. Speer, Judd P. Stack, Clyde Raymond Stevens, H. Curtis Stinson, Ross Stockwell, Carl James Stoddard, John Russell Stoker, Paul Stuewe, Mabel Greta Stump, Wayne Elmer Sullivan, Bertha Swartz, John T. Swetlich,		Post-office and county (or state).
Olga Raemer,		Herkimer, Marshall.
Harvey Rait		Junction City, Geary.
Charles Ernest Randels		Anthony, Harper.
Earle Resume		Ellsworth, Ellsworth.
Carl H Reed		Centralia, Nemaha.
Diele B Road	•	Toneka Shawnee.
Fro Morri Poores	•	Manhattan Riley
Constance E Dishmond	•	Lanora Morton
Namel Dobb	•	Neel Greenwood
Tilered Too Dobbins	•	Puscali Russali
rioya joe Robbins,	•	Marrill Brown
Frank Robinson,	•	Manuil Brown.
Josephine Robinson,	•	Doloron Morris
Charles Henry Robison,	•	Wishita Codowish
Harry H. Rogers,	• •	Manhattan Dilar
Alvena Rhode,	•	Manhatan, Kney.
Harvey Roots,	•	Mannattan, Kiley.
Franco T. Rosado,	•	Isabela, Negros, P. 1.
Clarence S. Ross,	•	Independence, Montgomery.
George Helmick Ross,	•	Manhattan, Riley.
Worth D. Ross,	•	Manhattan, Riley.
Lucile Leora Rudolph,		Manhattan, Riley.
Edwin E. Rugg,		Liberal, Seward.
John P. Sanborn,		Chapman, Dickinson.
Minnie Pearl Sanderson,		Marysville, Marshall.
Chester Schenck		Le Roy, Coffey.
Catheryn Schiereck.		Dighton, Lane.
Ed H. Schroer.		Parallel, Riley.
Bartha Schwah		Morganville, Clay,
Minnia M Scott		Waterville, Marshall,
Gladve Sadie Seaton		Jewell, Jewell.
Emact O Sachriet		Meriden, Jefferson.
Todio Toon Show	•	Leavenworth, Leavenworth.
Etta Champand	•	Manhattan Riley
Harmy Molgon Chylen	•	Manhattan Riley
Commis Memiette Shamarrory	•	Manhattan Rilay
Carrie Marietta Shumway,	•	Topogravilla Rilay
Edward Leon Sikes,	• •	Leonardville, Dilov
Maria Harden Sines	•	Wellswille Emplein
Merie Hudson Sims,	• •	Wellsville, Franklin.
Harry E. Skinner,	•	To Jones Jenes Montager
Homer Sloan,	•	Independence, Montgomery.
Eads Edward Smith,	• •	Holyrood, Ellsworth.
Harlan D. Smith,		Manhattan, Riley.
Harry C. Smith,	• •	Mannattan, Riley.
Ned Smith,		Manhattan, Riley.
Florence Snell,		Douglass, Butler,
Orin Snider,		Abilene, Dickinson.
Talmage Solt,		Manhattan, Riley.
Mabel Sommer,		Kiowa, Barber.
Edna Grace Soupene		Manhattan, (Pottawatomie)
Whitecomb G. Speer		Cottonwood Falls, Chase.
Tudd P Stack		Topeka, Shawnee,
Clardo Parmond Stevens	•	Humboldt, Allen.
If Cartie Clinean	• •	Relleville Republic
D. Carus Sunson,	• •	Havanguilla Pottawatomia
Ross Stockwell,	• •	Margatah Atabigan
Cari James Stoddard,	• •	Monkotton Dil
John Russell Stoker,		Maimattan, Kney.
Paul Stuewe,		Aima, wabaunsee.
Mabel Greta Stump,		Mannattan, Kiley.
Wayne Elmer Sullivan,		Junction City, Geary.
Bertha Swartz,		Newton, Harvey.
John T. Swetlich,		Holton, Jackson.

Name.					Post-office and county (or state).
Leonhardt Swingle, Ellen Maude Terhune,	•	٠	•	•	Manhattan, Riley.
Ellen Maude Terhune, .	•	٠	•		Manhattan, Riley.
Grace Ternune,	•		•		Manhattan, Riley.
Harold A. Thackrey,	•	٠	٠		Kansas City, Wyandotte.
John Tinkham,	•	•	•		Manhattan, Riley.
Harry W. Tobey,		•			Hope, Dickinson.
Walter Edwin Tomson, .					Topeka, Shawnee.
Tom K. Toothaker,					Blaine, Pottawatomie.
Robert Thadious Towler, .					Ulysses, Grant.
Zepherine Ellen Towne, .					Manhattan, Riley.
Otho C. Tucker,					Salina, Saline.
Chester Francis Turner, .					Manhattan, Rilev.
Mary Lee Turner					Manhattan, Riley,
Arthur Unruh					Pawnee Rock, Barton
Joe Vale					Webber, Jewell.
Harry Vanderlin	·				Manhattan Riley
Philip Cornelius Vilander.	Ĭ.	Ĭ.		-	Manhattan Riley
Frank H. Walker	•	•	•	·	Atwood Rawling
Walter Gilling Ward	•	•	·	•	Bird City Chayonno
Clarence Short Watson	•	•	•	•	Pittshurg Crowford
John Earl Watt	•	•	•	•	Horner Horner
Charles R Wears	•	•	•	•	Monhotton Dilor
Tohn Wohster	•	•	•	•	Corneine Filementh
Tomos Towis Wolls	•	•	•	•	Uiowetha Danner
I orgin Worm old ringh on	•	•	•	•	Manhattan Dilam
Educative Transference .	•	•	•	•	Description, Kiley.
Eugar westover,	•	•	•	•	Brownell, Ness.
Andrew Jenerson wheeler,	٠	٠	•	٠	Tyro, Montgomery.
Clarence wheeler,	•	•	•	•	Jefferson, Montgomery.
Glenn B. Wheeler,	•	•	•	•	Logan, Phillips.
Helen Wheeler,	•	•	•	•	Logan, Phillips.
A. Homer Whitney,	•		•	•	Narka, Republic.
Cecil Ray Wilhoit,			•		Centralia, Nemaha.
Clyde Douglas Williams, .					Williamsburg, Franklin.
Louis Coleman Williams, .					Manhattan, Riley.
Luther Earle Willoughby,					Alton, Osborne.
Roy M. Wilson,					Concordia, Cloud.
Jesse W. Wittmever					Harper, Harper,
Harold Pope Wood					Elmdale, Chase,
Olive Bell Wright					Ottawa, Franklin.
Kirby K. Wyatt.	-				Highland, Doninhan
Gerald Wyland.	•	•		-	Smith Center Smith
Aleck Roland Yarrow	•	•	•	•	Wakefield, Clay
Oscar York	•	•	•	•	Dunlan Morris
Name. Leonhardt Swingle, Ellen Maude Terhune, Grace Terhune, Harold A. Thackrey, John Tinkham, Harry W. Tobey, Walter Edwin Tomson, Tom K. Toothaker, Robert Thadious Towler, Zepherine Ellen Towne, Otho C. Tucker, Chester Francis Turner, Mary Lee Turner, Arthur Unruh, Joe Vale, Harry Vanderlip, Philip Cornelius Vilander, Frank H. Walker, Walter Gilling Ward, Clarence Shont Watson, John Earl Watt, Charles R. Wears, John Webster, James Lewis Wells, Louis Wermelskirchen, Edgar Westover, Andrew Jefferson Wheeler, Clarence Wheeler, Glenn B. Wheeler, Helen Wheeler, A. Homer Whitney, Cecil Ray Wilhoit, Clyde Douglas Williams, Louis Coleman Williams, Lou	•	•	•	•	- arriap, morring.

FRESHMEN.

Hattie Julia Abbott,							
Mark Abildgaard,							Winfield, Cowley.
Wilber Scott Acton,							Concordia, Cloud.
Arthur Adams, .							Maplehill, Wabaunsee.
Ellen Adams,							South Haven, Sumner.
Elsie Adams,							Ozawkie, Jefferson.
James F. Adee, .							
							Kansas City, Wyandotte.
Fayette H. Allis, .							
James Alsop,							Wakefield, Clay,
							McPherson, McPherson.
Clarence Anderson,							
Frances May Anders							
John H. Anderson,							
John II. Imacibon,	•	•	•	•	•	•	acoundit, citizen.

Justina Andrews, Clarence R. Apitz,					Post-office and county (or state).
Justina Andrews,	•	•	•	٠	Norcatur, Decatur. Manhattan, Riley. Isabel, Barber. Wakefield, Clay. Wakefield, Clay. Cherryvale, Labette. Solomon Rapids, Mitchell.
Clarence R. Apitz,	•	•	•		Manhattan, Riley.
Mary E. Austin,	•	٠	•	•	isabel, Barber.
Harry Grant Avery,	•	•	•	٠	Wakefield, Clay.
Emery Babb,	•	•	•	•	Wakefield, Clay.
Elsie Loretta Baird,	•	•	٠	•	Cherryvale, Labette.
Arthur Baker,	•	•	•	•	Solomon Rapids, Mitchell.
Earl Franklin Baker, .		•	•		irinamana Omy, councy.
Orville L. Baker,	•		•	•	Manhattan, Riley.
George A. Barnard,	•	•	•		Madison, Greenwood. Simpson, Cloud.
Robert L. Barnum,	•	•	•	•	Simpson, Cloud.
Thomas Bartlett,				•	Iola, Allen.
Amy Gertrude Batchelor,	•	•	•	•	Manhattan, Riley.
Ruth Hallar Bates,	•	•	•	•	Manhattan, Riley.
Harry Grant Avery, Emery Babb, Elsie Loretta Baird, Arthur Baker, Earl Franklin Baker, Orville L. Baker, George A. Barnard, Robert L. Barnum, Thomas Bartlett, Amy Gertrude Batchelor, Ruth Hallar Bates, William Clyde Baxter, Edith Beahm,		•		•	Thayer, Neosho.
		•			Concordia, Cloud. Valencia, Shawnee. Republic, Republic. Manhattan, Riley.
Olive Beal,	•	•	•	•	Valencia, Shawnee.
Borden Beck,				•	Republic, Republic.
Albert Smith Bell,					Manhattan, Riley.
Arthur Randall Bentley, .	•				Valhalla, Gove.
Evalyne Annette Bentley,					Valhalla, Gove.
Esther M. Berry,					Jewell, Jewell.
Ina Fern Bigger,					Topeka, Shawnee.
Borden Beek, Albert Smith Bell, Arthur Randall Bentley, Evalyne Annette Bertley, Esther M. Berry, Ina Fern Bigger, Joe Billings, Russell Bills, George Edward Bircher			•		Valhalla, Gove. Valhalla, Gove. Jewell, Jewell. Topeka, Shawnee. Grantville, Jefferson. Manhattan. Rilev.
Russell Bills,					Manhattan, Riley.
George Edward Bircher, .				٠,	Cairo, Pratt.
Carl Madison Blaine,					Hiawatha, Brown.
Lynn D. Blanchard,					Manhattan, Riley.
Margaret Blanchard,					Bennington, Ottawa.
George William Blythe, .					White City, Morris.
Joe Billings, Russell Bills, George Edward Bircher, Carl Madison Blaine, Lynn D. Blanchard, Margaret Blanchard, George William Blythe, Lawrence John Blythe, Ray Boiselle, John W. Bolinger, Ray Mose Bovard, Ralph Coleman Bowlby, Carl Shipman Breese, Lawrence E. Brennan, William Edward Broadhurst Harry Broud,			:		Mannattan, Riley. Bennington, Ottawa. White City, Morris. White City, Morris. Hoisington, Barton. Bogue, Graham. Utica, Ness. Fairport, Russell. Manhattan, Riley. Manlehill. Wabaunsee.
Ray Boiselle					Hoisington, Barton.
John W. Bolinger					Bogue, Graham.
Ray Mose Boyard					Utica, Ness.
Ralph Coleman Bowlby					Fairport, Russell.
Carl Shipman Breese					Manhattan, Riley. Maplehill, Wabaunsee.
Lawrence E. Brennan					Maplehill, Wabaunsee.
William Edward Broadhurst					Oxford, Sumner.
Harry Broud					Topeka, Shawnee. Hiawatha, Brown.
Shirley D. Brown					Hiawatha, Brown.
Elma Brubaker, Elsie Luella Buchheim, . Meta Evalina Buck, Glenn Buckman,					Edwardsville, Wyandotte.
Elsie Luella Buchheim.		-	-		Winkler, Riley.
Meta Evalina Buck					Manhattan, Riley.
Glenn Buckman					Conway, McPherson.
Roscoe E Burch		-			Kensington, Smith.
Parer E Burnett	•	:			Hymer. Chase.
Grace Drollinger Burtner	•	Ĭ.	. ,	, .	Manhattan, Riley.
Alfred Vivian Ryaraly		•	•	Ī	Bala, Riley,
Touch Lee Byram	•	•	•	٠.	Cedar Point, Chase.
Thath Comphell	•	•	•	•	Manhattan Riley.
Coorda Lawis Campbell	•	•	•	•	Bushong, Lyon,
Oninton Comphell	•	•	•	•	Conway Springs, Sumner,
Ja Alfrede Corleen	•	•	•	•	Manhattan Riley
Transac Case	•	•	•	•	Kansas City, Wyandotte.
Frances Case,	•	•	•	•	Kansas City Wyandotte
(Mar.) Donger Core	•	•	•	•	Manhattan Riley
(Mrs.) ransy case,	•	•	•	•	Kanese City Wyandotte
S. Irene Case,	•	•	•	•	Milford Geary
Bessie H. Unambers,	•	•	•	•	Manhattan Rilay
Meta Evalina Buck, Glenn Buckman, Roscoe E. Burch, Percy E. Burnett, Grace Drollinger Burtner, Alfred Vivian Byaraly, Joseph Lee Byram, Edyth Campbell, George Lewis Campbell, Quinton Campbell, Ida Alfreda Carlson, Frances Case, Lulu L. Case, (Mrs.) Pansy Case, S. Irene Case, Bessie H. Chambers, Berta Lorena Chandler, Ralph Blake Chapin,	•	•	•	•	Conway, McPherson. Kensington, Smith. Hymer, Chase. Manhattan, Riley. Bala, Riley. Cedar Point, Chase. Manhattan, Riley. Bushong, Lyon. Conway Springs, Sumner. Manhattan, Riley. Kansas City, Wyandotte. Kansas City, Wyandotte. Manhattan, Riley. Kansas City, Wyandotte. Milford, Geary. Manhattan, Riley. Green, Clay.
Ralph Blake Chapin,	•	•	•	•	Green, Oray.

Name. Eugene Cheeseman, Lulu Anna Christie, Ernest Herbert Clark, Hazel Clark, Merle Dolin Collins, Myron Collins, Stanley Arno Combs, Alma Irene Comes, Herbert Walter Conger, Aubrey Deakins Conrow, Lena Adelle Conrow, Rose Conway, John R. Cooper, May Louise Cowles, Anna Cox, George Henry Gox, Merton Cozine, Florence Bell Cragg, Earl Creviston, Maud R. Criger, Henry Neil Curry, Ruby B. Custer, Floyd Everell Davis, Floyd Ivan Davis, Paul B. Davis, Roy Ira Davis, Galyds Deaver, Florence R. Dickey, Ivah Dillon, Laura Dougherty, Howard H. Douglas, Dora Douglass, Clyde Drake, Richard Leroy Drake, Henry O. Dresser, Cora M. Brown, Leo E. Duehn, Samuel Duffield, William O. Dunn, Charles Wesley Durrett, Mollie Elizabeth Eagles, Mary Belle Edelblute, Ruth Edgerton, Edward J. Edwards, G. DeWitt Elder, James Cyrus Ryan Elliott Martha Elliott, Frank C. Ellis, Homer Emmons, Harry C. Errett, William D. Essmiller, Edward Benjamin Ester, Elsie May Ester, Nell Ruford Estes, Noll Rufus Estes, Osier Verne Estes, Mabel Etzold, Ada Elizabeth Evans, John Cecil Evans, Lottie Alice Farnsworth,						Post-office and county (or state).
Eugene Cheeseman						Lange Norton
Lulu Anna Christie	•	•	•	•	•	Wayerly Coffee
Ernest Herbert Clark	•	•	•	•	•	Linn Washington
Hazel Clark	•	•	•	•	•	Prott Prott
Merle Dolin Collins	•	•	•	•	•	Manhattan Riley
Myron Collins.	•	•	•	•	•	Manhattan Riley
Stanley Arno Combs.	•	•	•	•	•	Manhattan Riley
Alma Irene Comes.	•	•	•	•	•	Rurrton (Rana)
Herbert Walter Conger	•	•	•	•	•	Maada Maada
Aubrey Deakins Conrow.		•		•	•	Manhattan Riley
Lena Adelle Conrow.	•	•	•	•	•	Manhattan Riley
Rose Conway.	•	•	•	•	•	Norcetur (Norten)
John R. Cooper.				•	•	Atwood Rawling
May Louise Cowles				•	•	Lawrence Donolas
Anna Cox		•	•	•	•	Kirwin Philling
George Henry Cox.		•	•	•	•	Have Ellie
Merton Cozine	•	•	•	•	•	Linn Washington
Florence Bell Cragg.				•	•	Manhattan Riley
Earl Creviston				•	٠,	Manhattan Riley
Mand R. Criger.			•	•	•	Howard Elk
Henry Neil Curry.				•	•	Dunavant Lefferson
Ruby B. Custer.	-			•	•	Manhattan Riley
Floyd Everell Davis.				•	•	Clay Center Clay
Floyd Ivan Davis.				•	•	Cave Grav
Paul B. Davis	•	•		•	•	Santa Fe Hackell
Roy Ira Davis	•		•	•	•	Playna Rano
Glavds Deaver				•	•	Eshon Jewell
Florence R. Dickey.				•	•	Newton Harvey
fush Dillon	•	•		•	•	Kensington Smith
Laura Doughertz	•	•	•	•	•	Manhattan Rilay
Howard H. Douglas		•	•	•	•	Florence Marion
Dora Douglass	•	•	•	•	•	Athal Smith
Clyde Drake				•	•	Manhattan Riley
Richard Leroy Drake.		:		•	•	Fort Scott Bourbon
Henry O. Dresser.				•	•	Manhattan Riley
Cora M. Brown.				•	•	Manhattan Riley
Leo E. Duebn.				•	•	Clements Chase
Samuel Duffield.				•	•	Manhattan Riley
William O. Dunn				•	•	Manhattan Riley
Charles Wesley Durrett.				•	•	Manhattan Riley
Mollie Elizabeth Eagles.			-	•	•	Assaria Saline
Mary Belle Edelblute.			-	•	•	Keats Riley
Ruth Edgerton.				•	•	Manhattan Riley
Edward J. Edwards				•	•	Lyons, Rice
G. DeWitt Elder				•	•	Augusta, Butler.
James Cyrus Ryan Elliott				•	•	Linn. Washington
Martha Elliott.				•	:	Manhattan, Riley.
Frank C. Ellis				•	•	Fort Scott. (Linn).
Homer Emmons				•		Bucklin, Ford.
Harry C. Errett,						Cottonwood Falls, Chase
William D. Essmiller.				:		Great Bend, Barton.
Edward Benjamin Ester.						Peck. Sedewick.
Elsie May Ester				-		Peck, Sedgwick.
Ned Bluford Estes						Stafford, Stafford,
Noll Rufus Estes					•	Stafford, Stafford
Osier Verne Estes						Manhattan, Riley
Mabel Etzold					:	Liberal, Seward
Ada Elizabeth Evans.						Manhattan, Rilev.
John Cecil Evans						Manhattan, Riley
Lottie Alice Farnsworth.					•	Manhattan, Riley.
0.t				-	-	

Name.			Post-office and county (or state).
			Manhattan, Riley.
Verne Farnsworth,	•	•	Wannacian, Kney.
Glenn R. Fickel,	•	•	Kansas City, Wyandotte.
Glenn R. Fickel, Claude B. Flora, Lulu Mae (Snodgrass) Folsom, Charles For Forest	•	•	Holton, Jackson.
Lulu Maa (Spadaraga) Folcom	•	•	Kansas City, Wyandotte.
Charles Farl Foresmen	•	•	Manhattan, Riley. Manhattan, Riley.
Unaries Earl Foresman,	•	٠	Manhattan, Kiley.
I I care Forsberg,	•	٠	Manhattan, Riley.
Edmond John Emanagement	•	•	Manhattan, Riley. Concordia, Cloud.
Oliman Manusia Electrica	•	•	Concordia, Cloud.
Onver Morris Franklin,	•	•	Odee, Meade. Dorrance, Russell.
Rachel E. Fredrich,	•	•	Dorrance, Russell.
James S. Freedorn,	•	•	Osborne, Osborne.
John T. Freed,	•	٠	Scott, Scott.
Annie Laurie Freeman,	•	•	Manhattan, Riley.
ivy Ann Fuller,	•	•	Manhattan, (Pottawatomie).
Harold Gaden,	•	•	Riley, Riley.
Gecil Gibbs,	•	•	Kinsley, Edwards.
Will A. Gibson,	•		Holton, Jackson.
John Hamilton Gill,	•		Manhattan, Riley.
George H. Gillman,			New Cambria, Saline.
Nathan A. Gish,			Manhattan, Riley.
Lois Ruth Gist,			Manhattan, Riley.
Richard Gleed,			Lawrence, Douglas.
Edna M. Glover,			Manhattan, Riley.
Walter William Goddard,*			Minneapolis, Ottawa.
Ethel Goheen,			Manhattan, Riley.
Andrew Goldsmith			Abilene, Dickinson.
Mabel Mae Gonterman			Manhattan, Riley.
John I. Goodrum.	-		Mayfield, Sumner.
Lee H. Gould.		i	Dodge City, Ford.
David D. Grav.	-		Topeka, Shawnee.
Herhert W. Gribble	Ī.	Ť	Manhattan, Riley.
S. Lelia Groome	•	•	Manhattan, Riley
Percy Hacker	•	•	Manhattan, Riley. Manhattan, Riley.
Simpson Floyd Hacker	•	•	Atwood Rawlins
Raccia Hagane	•	•	Atwood, Rawlins. Utica, (Lane). Beloit, Mitchell. Hope, Dickinson. Hoyt, Jackson.
Everett C Helev	•	•	Relait Mitchell
Anthun Holl	•	•	Hono Diekinson
Emme Files Hell	•	•	Hort Toelroom
A court Woman or d	•	•	Month Tonolso Charrence
Aaron L. Hammond,	•	•	North Topeka, Shawnee.
Grace Lorena naminono,	•	•	Manhattan, Riley.
Ruth Hammond,	•	•	North Topeka, Shawnee.
Carl Hampy,	•	•	Bucklin, Ford.
Ada Maude Hand,	•	•	Wellington, Sumner. Greenleaf, Washington. Goodland, Sherman.
Charles H. Hanson,	•	•	Greenlear, washington.
Charles Hartwig,	•	•	Goodland, Sherman.
Ralph S. Hawkins,	•	•	Marysville, Marshall. Dodge City, Ford.
John Chester Heard,	•	•	Dodge City, Ford.
Ellen Heinen,			Green, Clay.
William Hemphill,			Manhattan, Riley.
Raymond A. Henderson,			Kensington, Smith. Manhattan, Riley.
Guy Hendrickson,			Manhattan, Riley.
Inez V. Hepler,			Manhattan, Riley.
Walter Andrew Hepler			Manhattan, Riley.
Basil Clement Hertslet			Corning, Nemaha.
Thomas Math. Heslip.			Garnett, Anderson.
Charles William Hickok.	-		Ulysses, Grant.
Glenn R. Fickel, Claude B. Flora, Lulu Mae (Snodgrass) Folsom, Charles Earl Foresman, Hilder Forsberg, I. Loren Fowler, Edward John Francoeur, Oliver Morris Franklin, Rachel E. Fredrich, James S. Freeborn, John T. Freed, Annie Laurie Freeman, Ivy Ann Fuller, Harold Gaden, Cecil Gibbs, Will A. Gibson, John Hamilton Gill, George H. Gillman, Nathan A. Gish, Lois Ruth Gist, Richard Gleed, Edna M. Glover, Walter William Goddard,* Ethel Goheen, Andrew Goldsmith, Mabel Mae Gonterman, John I. Goodrum, Lee H. Gould, David D. Gray, Herbert W. Gribble, S. Lelia Groome, Percy Hacker, Simpson Floyd Hacker, Bessie Hagans, Everett G. Haley, Arthur Hall, Emma Ellen Hall, Aaron L. Hammond, Grace Lorena Hammond, Ruth Hammond, Carl Hampy, Ada Maude Hand, Charles H. Hanson, Charles H. Hanson, Charles Hartwig, Ralph S. Hawkins, John Chester Heard, Ellen Heinen, William Hemphill, Raymond A. Henderson, Guy Hendrickson, Inez V. Hepler, Walter Andrew Hepler, Basil Clement Hertslet, Thomas Math. Heslip, Charles William Hickok, Mary Elizabeth Hickok, George W. Hill,	•		Manhattan, Riley. Corning, Nemaha. Garnett, Anderson. Ulysses, Grant. Ulysses, Grant.
George W. Hill.	-	•	Hope, Dickinson.
G00180 11. 11111,	•	•	

^{*} Deceased.

Name.						Post-office and county (or state).
Arthur Cornelius Hjelm,						Manhattan, Riley.
Hazel Juanita Hoke, .						Manhattan, Riley.
Grace Hole,	•					Manhattan, Riley.
Leonard Joseph Hole, .		•	•			Manhattan, Riley. Manhattan, Riley. Manhattan, Riley. Manhattan, Riley.
Thomas John Holland,				•		Manhattan, Kiley.
Louie Hollenbaugh, .		•	•	•	•	McCune, Crawford.
Arthur Cornellus Hjelm, Hazel Juanita Hoke, Grace Hole, Leonard Joseph Hole, Thomas John Holland, Louie Hollenbaugh, Zoa M. Hollopeter, Rodney Grant Holmberg, Oscar Stephen Holroyd, Elmer E. Hoover, George Arthur Hopp, Arthur Justus Hotte, Marshall C. Howard,	•	•	•	٠		Coffeyville, Montgomery.
Rodney Grant Holmberg,	•	•	•	•	•	North Topeka, Shawnee.
Oscar Stephen Holroyd,	•	•	•	٠	•	Hewins, Chautauqua. Dexter, Cowley.
Elmer E. Hoover,	٠	٠	•	•	•	Dexter, Cowley.
George Arthur Hopp,	•	•	•	٠	٠	Manhattan, Riley. Manhattan, Riley.
Arthur Justus Hotte, .	٠	•	•	•		Mannattan, Kiley.
Marshall C. Howard, James M. Howell, Leland A. Howell, Melissa Marie Howell, Lester L. Howenstine,	•	•	•	•	•	Iola, Allen.
James M. Howell,	•	٠	•	•	•	Kansas City, Wyandotte.
Leland A. Howell,	•	•	•	•	•	North Topeka, Shawnee.
Melissa Marie Howell,	٠	_•	•	٠	•	Manhattan, Riley. Manhattan, Riley. Topeka, Shawnee. Manhattan, Riley. Manhattan, Riley. Manhattan, Riley.
Lester L. Howenstine,	•	•	•	•	•	Mannatian, aney.
Clara Louise Hughes, .	•	•	•	•	•	Monhotton Pilov
Dwight E. Hull,	•	٠	٠	•	•	Manhattan, Riley.
Evangeline Hull, Arthur B. Hungerford, Cecil Harley Hungerford Edwin Hungerford,	•	•	•	•	•	Manhattan, Riley.
Arthur B. Hungeriord,	•	•	•	•	•	Manhattan Piley
Cecil Harley Hungeriord	,	•	•	•	•	Monhotton Piley
Edwin Hungeriord,	•	•	٠	•	٠	Soldier Teckson
Lula Hungeriora,	•	•	•	٠	•	Topoka Shawnee
Harold Raymond Hurd,	٠	•	•	٠	•	Monhattan Riley
Louis Edgar Hutto, .	٠	•	٠	•	•	Manhattan Riley
Aidle P. Immenschun,	•	•	٠	•	•	Manhattan, Riley.
Promised Toolson	•		•	•	•	Elmont. Shawnee.
Raymond Jackson,	•	٠.	•	•	•	Claffin Barton
Arthur B. Hungerford, Cecil Harley Hungerford Edwin Hungerford, Lula Hungerford, Lula Hungerford, Harold Raymond Hurd, Louis Edgar Hutto, Aldie P. Immenschuh, Irving Ingraham, Raymond Jackson, Henry Janke, Mary Cassandra Jeffries Robert L. Jennison, Alex. C. Johnson, Gladys May Johnson, Roy Johnson, Waldo Harold Johnson, Robert C. Johnston, Joseph Clarence Jones, Raymond Jones, Catherine L. Justin, Clarence Kaser, Mary Kernohan, Noel Kerr, Archer F. Kiser, Roy William Kiser, William Albert Kraettli, Frank Kramer, Elgie A. Kubin,	•	•	•	•	•	Manhattan, Riley. Manhattan, Riley. Manhattan, Riley. Manhattan, Riley. Soldier, Jackson. Topeka, Shawnee. Manhattan, Riley. Manhattan, Riley. Manhattan, Riley. Manhattan, Riley. Elmont, Shawnee. Clafin, Barton. Manhattan, Riley. Farnsworth, Lane.
Debart T Tennican	,	•	٠	•	•	Manhattan, Riley. Farnsworth, Lane. Scandia, Republic. Manhattan, Riley. Pussell Russell
Alex C Tohnson, .	•	•	•	٠	•	Scandia, Republic,
Cladra Mart Johnson	•	•	•	•	•	Manhattan, Riley.
Por Tohnson	•	•	•	٠	•	Russell, Russell. White City, Morris.
Wolde Harold Johnson	•	•	•	•	·	White City, Morris.
Robert C. Johnston	•	•	•	•	·	Adams, Kingman. Manhattan, Riley. Springfield, Seward. Manhattan, Riley. Cedar Vale, Chautauqua. Nashville, Kingman.
Losenh Clarence Jones	•	•	•	•	·	Manhattan, Riley.
Raymond Jones	•	•	·	•		Springfield, Seward.
Catherine L. Justin.	•	•	·	-		Manhattan, Riley.
Clarence Kaser.	•					Cedar Vale, Chautauqua.
Mary Kernohan.		Ċ				Nashville, Kingman.
Noel Kerr						Sabetha, Nemaha.
Archer F. Kiser						Geneseo, Rice.
Roy William Kiser.						Geneseo, Rice.
William Albert Kraettli.						Clay Center, Clay.
Frank Kramer						Zeandale, Riley.
Elgie A. Kubin.			,			McPherson, McPherson.
J. Ralph LaMont						Longton, Elk.
Katie LaMont.						Longton, Elk.
Elsie Marie Larson, .						Riley, Riley.
Rushton D. Laughlin, .						Garden City, Finney.
Walter Melvin Lawry,						Manhattan, Riley.
Frank Baxter Lawton,						Newton, Harvey.
Charles Leadley,	,	٠.				Rozel, Pawnee.
Thomas A. Leadley, .		, .				Rozel, Pawnee.
Ernest F. Leckron, .						Abilene, Dickinson.
Charles A. Leech,			•			Fort Scott, Bourbon.
Ernest L. Leland,	•,					Jewell, Jewell.
Alma Levengood,			•		•	Springfield, Seward. Manhattan, Riley. Cedar Vale, Chautauqua. Nashville, Kingman. Sabetha, Nemaha. Geneseo, Rice. Glay Center, Clay. Zeandale, Riley. McPherson, McPherson. Longton, Elk. Longton, Elk. Riley, Riley. Garden City, Finney. Manhattan, Riley. Newton, Harvey. Rozel, Pawnee. Rozel, Pawnee. Abilene, Dickinson. Fort Scott, Bourbon. Jewell, Jewell. Athol, Smith.
-						

Name.					Post-office and county (or state). Marysville, Marshall. Harper, Harper. Manhattan, (Pottawatomie) Manhattan, Riley. Maplehill, Wabaunsee. Manhattan, Riley. Mayetta, Jackson. Kansas City, Wyandotte. Manhattan, Riley. Malnut, Crawford. Bendena, Doniphan. Manhattan, Riley. Bala, Riley. Bala, Riley. Bala, Riley. Bala, Riley. Bala, Riley. Riley. Riley. Riley. Manhattan, Riley. Ada, Ottawa. Eureka, Greenwood. Manhattan, Riley. Kiley, Riley. White City, Morris. Manhattan, Riley. Riley, Riley. Riley, Riley. White City, Morris. Manhattan, Riley. Lincoln, Lincoln. Maplehill, Wabaunsee.
C. Oscar Levine,					Marysville, Marshall.
Paul J. Lewelling,					Harper, Harper.
Hazel Viola Limbocker, .					Manhattan, (Pottawatomie)
Sewell Lofinck,					Manhattan, Riley.
Annie Elizabeth Logan, .					Maplehill, Wabaunsee.
John Barlow Lund,		٠.			Manhattan, Riley.
Dudley Lunger,					Mayetta, Jackson.
Ray Luther,			•		Kansas City, Wyandotte.
Gertrude Lyman,					Manhattan, Riley.
Charles E. Lyness,					Walnut, Crawford.
John M. Lyons,	•				Bendena, Doniphan.
Thomas Daniel Lyons, .					Manhattan, Riley.
Anna Eliza McCoy,	-				Manhattan, Riley.
Hannah Elsie McCoy,	•			:	Manhattan, Riley.
William Ross McCoy,					Manhattan, Riley.
Paul Clyde McCready, .	•			90.	Neodesha, Wilson.
Eula Delpha McDonald, .	•	•			Manhattan, Riley.
Ross L. McDonald,				•	Manhattan, Riley.
Scott Roger McDonald, .	•		•	•	Manhattan, Riley.
Zara Harmon McDonnall,	•			•	Manhattan, Riley.
Henry W. McFadden,					Halls Summit, Coffey.
Clayton Alexander McIntosh	,				Washington, Washington.
Bertha McKeage,					Hoyt, Jackson.
Harold F. McKee,	•				Havensville, Pottawatomie.
Iona McKeeman,	•				Manhattan, Riley.
Mary E. McNamara,					Manhattan, Riley.
Anna Malm,	•				Manhattan, Riley.
Hilda Malm,		•			Manhattan, Riley.
Ralph Manly,				•	Manhattan, Riley.
Kenneth R. March,	•	•	•	•	Manhattan, Riley.
Cora Estella Maxwell, .	•		•	•	Bala, Riley.
Florence Gertrude Maxwell,	•	•	•	•	Bala, Riley.
Allen Mayhew,	•		•		Belpre, Edwards.
Mollie Meyer,	•	•	•	•	Clifton, Washington.
Alsey W. Michael,	•	•		•	Havana, Montgomery.
Dwight Logan Miller, .	•	•	•		Manhattan, Riley.
Harold Gibson Miller, .	•	•	•	•	Ada, Ottawa.
Ralph Leroy Miller,	-	•	•	•	Eureka, Greenwood.
Dale Johnson Missimer, .	•	•	•	•	Manhattan, Riley.
Harry Clifford Mitchell, .	•	•	•	•	Hymer, Chase.
Ida Eugenia Moffats,	•	•	•	• '	Manhattan, Riley.
Leon Newton Moody,	•	•	•	•	Riley, Riley.
Leora Evangeline Moody,	•	•	•	•	Riley, Riley.
Ralph Allen Moore,	•	•	•	•	White City, Morris.
Dorr D. Morey,	•	•	•	•	Manhattan, Kiley.
William A. Moss,	•	•	•	•	Lincoln, Lincoln.
Delbert E. Mossman,	•	•	•	٠	Maplehill, Wabaunsee.
Dennis F. Mossman,	•	•	•	•	Maplenill, wabaunsee.
Murl D. Munger,	•	•	•	•	Yates Center, Woodson.
Boise Russell Murphy, .	•	•	•	•	Liberal, Seward.
Charles_Murphy,	•	•	•	•	Halstead, Harvey.
Elmer B. Myers,	•	•	•	•	Hutchinson, Keno.
Lester E. Myers,	•	•	•	•	Belleville, Republic.
Nathan B. Needham,	•	•	٠	•	Clifton, wasnington.
Winifred Louise Neusbaum,	•	•		•	Mannattan, Kiley.
Jessie Nichols,	•	•		•	Liberal, Seward.
John Carlton Nichols, .	•	•	•	•	Eureka, Greenwood.
Rae Crampton Nichols, .	•	•	•	•	Mannattan, Kiley.
Bernice P. Nicholson,	•	•	•	•	Manhattan, Kiley.
Josie E. Nicolay,	•	•	•	•	Scranton, Usage.

Name. Maude Eveline Nonamaker, Oscar Marion Norby, Ida Northrop, Mamie Norton, Earl O'Connell, William O'Connell, Ben Oldweiler, Ephriam A. Ostlund, Glenn Decatur Paddleford, Benjamin H. Painter, William Theodore Parry, Ellen Parsons, John W. Parsons, Blanche Peck, Ina Pence, Lora Perry, Melva Gay Perry, Henry Vinton Phenix, Roy M. Phillips, Edwin W. Pierce, Guy G. Pingree, Lucy W. Platt, Bruce M. Polley, Frank Glendon Pollom, Lester B. Pollom, Chester J. Porter, Harry E. Potter, Evart Rea Potts, Mary Puett, Aaron Purdy, Iola Grace Rader, Harry E. Railsback, William Judson Railsback, Henry Arthur Rankin, Helen E. Rannells, Karl O. Ranney, Chester Arthur Reavis, Enid Alzine Redden, Fred Thomas Rees, Frank Reid, Adel C. Renius, Raylf James Rhoades, Archie Monroe Richards, Bertha E. Richards, Bertha E. Richards, Harry R. Richardson, Ralph Ritter, Peter James Robidoux, Temple Robinson, Marguerite Robison, Marguerite Rodebaugh, Margaret Rogers, David S. Rose, Leslie W. Rowles, Bertha May Ruble, Neil L. Rucker, Warren A. Rude, Fred Ruffner, Albert Wilson Rymph, Del Sanford, Mary H. Sanneman,					Post-office and county (or state).
Mande Eveline Nonamaker.	_		_		Osborne, Osborne,
Oscar Marion Norby	:				Cullison, Pratt.
Ida Northrop.					Salina, Saline.
Mamie Norton					Barnard, Lincoln.
Earl O'Connell,					Kiowa, Barber.
William O'Connell,					Kiowa, Barber.
Ben Oldweiler,					Mayetta, Jackson.
Ephriam A. Ostlund,					Clyde, Washington.
Glenn Decatur Paddleford,					Manhattan, (Pottawatomie).
Benjamin H. Painter,					Beverly, Lincoln.
William Theodore Parry, .					Linwood, Leavenworth.
Ellen Parsons,	•				Clements, Chase.
John W. Parsons,			•	•	Sylvan Grove, Lincoln.
Blanche Peck,	•		•		Tecumseh, Shawnee.
Ina Pence,	•		•	•	Elmont, Shawnee.
Lora Perry,	•	•	•	•	Manhattan, Riley.
Melva Gay Perry,	•	•	•	•	Manhattan, Riley.
Henry Vinton Phenix,	•	•	•	•	Manhattan, Riley.
Roy M. Phillips,	•	•	•	•	Manhattan, Riley.
Edwin W. Pierce,	•	•	•	٠	Bison, Rush.
Guy G. Pingree,	•	•	•	•	Pomona, Franklin.
Lucy W. Platt,	•	•	•	•	Ætna, Barber.
Bruce M. Polley,	•	•	•	•	Republic, Republic.
Frank Glendon Pollom, .	•	•	•	•	North Topeka, Shawnee.
Lester B. Pollom,	••	•	•	•	Topeka, Shawnee.
Chester J. Porter,	•	•	•	•	Webber, Jewell.
Harry E. Potter,	•	•	•	•	Norwich, Kingman.
Evart Rea Potts,	•	•	•	•	Manhattan, Riley.
Mary Puett,	•	•	•		Manhattan, Riley.
Aaron Purdy,	•	•	•	•	Arkansas City, Cowley.
lola Grace Rader,	•	•		•	Manhattan, Kiley.
Harry E. Railsback,	•	•	•	•	Norcatur, (Norton).
William Judson Railsback,	•	•	•	•	Langdon, Keno.
Henry Arthur Kankin, .	•	•	•	•	Nashville, Kingman.
Helen E. Rannells,	•	•	•	•	Mannattan, Kiley.
Karl O. Ranney,	٠	•	•	•	Fontana, Miami.
Chester Arthur Reavis,	•	٠	•	•	Havana, Montgomery.
Enid Alzine Redden,	•	•	•	•	Gypsum, Saline.
Fred Thomas Rees,	•	•	•	•	Grantville, Jenerson.
Frank Reid,	•	•	•	•	Cherokee, Crawford.
Adel C. Renius,	•	•	•	٠.	Warquette, McPherson.
Rayli James Knoades, .	•	•	•	•	Wellsville, Franklin.
Archie Monroe Richards, .	•	•	•	•	Mannattan, Kiley.
Bertha E. Richards,	•	•	•	•	Mannattan, Kiley.
Harry R. Richardson,	•	• '	•	•	Moline, Elk.
Ralph Ritter,	•	٠.	•	٠	Spearville, Ford.
Peter James Robidoux, .	•	•	•	•	Mannattan, Kiley.
Temple Robinson,	•	•	٠	•	Mannattan, Riley.
Marguerite Robison,	•	•	•	•	Delavan, Morris.
Marguerite Rodebaugh, .	٠	•	•	•	Caldwell, Sumner.
Margaret Rodgers,	٠	•	٠	•	Mannattan, Kiley.
David S. Rose,	•	•	•	•	Douglass, Butler.
Leslie W. Kowles,	•	•	٠	•	Topeka, Snawnee.
Bertha May Ruble,	•	•	•	•	Caney, Montgomery.
Nell L. Kucker,	•	•	•	٠	burdett, Pawnee.
warren A. Kude,	•	•	٠	•	noisington, Barton.
Fred Ruffner,	•	•	•	•	Beiolt, Mitchell.
Albert Wilson Kymph, .	•	•	•	•	marper, marper.
Del Sanford,	•	•	•	•	Mannattan, Kiley.
Mary H. Sanneman,	•	•		•	Blue Kapids, Marshall.

Name.		Post-office and county (or state).
Axel Scheleen,	: :	Manhattan, Riley. Manhattan, Riley.
Charles H Scholer		Milo, Lincoln.
Elmer Schultz,		Manhattan, Riley.
Elmer Schultz, Margaret Washburn Schultz, Ludwig Schwab,	•	Manhattan, Riley.
Tudwie Schwah	: :	Partridge Reno
Elmon Conodon	• •	Partridge, Reno. Prescott, Linn.
Ludwig Schwab, Elmer Scneder,		Colony, Anderson.
Winnie Winfield Scott, Abel Segel, John W. Sexton, Lynn Shanton, Loren John Shepherd, Virgie Sherwood, Francis Lewelling Shull, Warren Earl Simonsen, Edith Sitterley, Edythe Skinner, Myrtle Mae Skinner, John Slaback, Fred D. Slaght, Claude H. Smith, Isaac Newton Smith, Joseph Smith, Marion William Smith, Ralph B. Smith, Luther O. Solt, Norman Sommers, Earl Springer, Charles H. Stacy, William Edward Stanley, Gail Harold Stark, John Sherman Stauffer, John T. Steele, Walter Steffey, Will P. Steiner, Edith C. Stenvers, Lottie Geneva Stephenson, Chester A. Sterling, Ralph Ralston Sterrett,		McPherson, McPherson.
Abel Segel,		
John W. Sexton,	: :	Kongington Smith
Lynn Snanton,		Kensington, Smith. Fort Scott, Bourbon.
Loren John Shepherd,		Manhattan, Riley.
Virgie Sherwood,	: :	Manhattan, Dilar
Francis Lewelling Shull,		Manhattan, Riley.
Warren Earl Simonsen,		Manhattan, Riley.
Edith Sitterley,	: :	Manhattan, Riley.
Edythe Skinner,		Manhattan, Riley.
Myrtle Mae Skinner,		Beverly, Lincoln. Conway, McPherson.
John Slaback,		Conway, McPherson.
Fred D. Slaght,		White City, Morris. Manhattan, Riley.
Claude H. Smith,		Manhattan, Riley.
Isaac Newton Smith,		Manhattan, Riley.
Joseph Smith,		Manhattan, Riley.
Marion William Smith,		Caldwell, Sumner.
Ralph B. Smith,	: :	Manhattan, Riley.
Luther O. Solt.		Manhattan, Riley. Manhattan, Riley.
Norman Sommers		Manhattan, Riley.
Earl Springer.		Highland, Doniphan.
Charles H. Stacv.		Manhattan, Riley.
William Edward Stanley.		
Gail Harold Stark		Ozawkie, Jefferson.
John Sherman Stauffer		
John T Steele		Manhattan, Riley.
Walton Stoffer		
Will D Steiner		Olathe, Johnson.
Will F. Stellier,	: :	Manhattan, Riley.
Tettie Conorra Stophonson	• •	Clements, Chase.
Cottle Geneva Stephenson, Chester A. Sterling, Ralph Ralston Sterrett, Delia Stoddard, Kate Stoddard, Lyda Stoddard, Marcia Story, Arthur R. Strohm, Felicia Goldie Stromire, Kenneth L. Stull, Thomas Leonard Sturtevant, Jerry P. Sullivan.		Carlton, Dickinson.
Delet Deleten Sternett		Morganville, Clay.
Raiph Raiston Sterrett,		Manhattan, Riley.
Delia Stoddard,	: :	Manhattan Dilov
Kate Stoddard,		Manhattan, Riley. Horton, Brown.
Lyda Stoddard,		
Marcia Story,		
Arthur R. Strohm,	: :	Jewell, Jewell.
Felicia Goldie Stromire,		Manhattan, Riley.
Kenneth L. Stull,		Minneapolis, Ottawa.
Thomas Leonard Sturtevant, .		Formoso, Jewell. Ulysses, Grant.
Jerry P. Sullivan,	: :	Ulysses, Grant.
Alpha Sumners,		Leonardville, Riley.
Albert Trevor Sutton,		Carthage, Missouri.
Elsie Malvina Swanson,		Manhattan, Riley.
Neil Edmond Swanson,		Vliets, Marshall.
R. Ollie Swanson,		Manhattan, Riley.
Mary Franc Sweet		Manhattan, Riley.
Eugene H. Sweeman.		Kansas City, Wyandotte.
Orton Lemont Talbot.		Kansas City, Wyandotte. McPherson, McPherson.
Cassie Lydia Tanner		Manhattan, Riley,
Ancel E Taylor.		Cawker City, Mitchell.
Fred Martin Taylor	: :	Formoso, Jewell.
Jerry P. Sullivan,		Lawrence, Douglas.
TATE Truit raliot,		

Name. John Calvin Taylor,		Post-office and county (or state).
John Calvin Taylor,		Zenith, Stafford.
Orville C. Taylor.		Holton, Jackson.
Oscar M. Taylor	•	Lawrence, Douglas.
Ruth Pearl Taylor	•	Chapman, Dickinson.
Reniamin Thomas	•	Homestead, Chase.
Will Thomas	•	Strong City Chago
Arthur Herbert Themsen	•	Strong City, Chase. Manhattan, Riley.
Pudelph Wren Thompson,	•	Talrin Vocana
Rudolph Wren Thompson, Carl Burton Tillinghast,	•	Lakin, Kearny.
Carl Burton Tillinghast,		Clifton, Washington. Russell, Russell.
Charles Lisuale,	•	Russell, Russell.
Deander Alpheas Tombaugh,	•	Athol, Smith.
Raymond G. Trexier,	•	Bucklin, Ford.
Claude H. Tucker,	•	Manhattan, Riley.
Katherine Ann Tucker,		Manhattan, Riley.
Maud Van Tilborg,		Beloit, Mitchell.
Edgar Allen Vaughn,		Toronto, Woodson.
Ruth Venables,		Bellaire, Smith.
Terence Vincent,		Girard, Crawford.
John A. Vohringer,		Hutchinson, Reno.
Don Henry Wageman,		Manhattan, Rilev.
Bertha Walker,		Atwood, Rawlins.
Elsmere Joe Walters,		Manhattan, Riley,
Orville H. Warner,		Garden City, Finney,
Burt O. Warren.		Manlehill, Wahaunsee
Rees C. Warren	·	Olne Lyon
Farn Vena Waaver	•	Wakafiald Clay
Gartruda Wahar	•	Manhattan Rilay
Grace Weir	•	Boilerwille Nomeho
Tames West	•	Dredal Danablia
Flizabeth Mas Whimple	•	Manhattan Piler
Elizabeth Mae Whippie,	•	Tanafani Class
Tabe Tabe Whippie,	•	Longiord, Clay.
John Leroy Whippie,	•	Longiord, Clay.
Lucy Etnel Whippie,	•	Mannattan, Kiley.
Raymond whitney,	•	Mannattan, Kiley.
Ulifford Wight,	•	Trinidad, Colorado.
Frederic C. Williams,	•	Hull, Marshall.
Owen E. H. P. Williams,	•	Manhattan, Riley.
Raymond Williams,	•	Newton, Harvey.
Shelton Williams,	•	Kenneth, Johnson.
Elmer W. Wilson,		Turner, Wyandotte.
Matilda Jane Wilson,		Manhattan, Riley.
Susan Elizabeth Wingfield,		Dwight, (Geary).
Eleanor Cornelia Winne		Manhattan, Riley.
Dean Wise		Clearwater, Sedgwick.
John Barton Wise.		Clearwater, Sedgwick,
Reuben E. Wiseman.		Manhattan, Riley.
Joseph Roy Witmer		Baileyville, Nemaha.
Charles C. Wolcott	Ť	Garfield Pawnee
Laroy Buchnell Wolcott	•	Garfield Pawnee
Willia Dance Wood	•	Manhattan Pilor
Walls Presen Wasdman	•	Vormilian Marchell
Wens Byron woodman,	•	Taltan Taltan
A de Warler	•	Notomo Ochorno
Ada worley,	•	Namina, Osborne.
oma Alvaretta worrel,	٠	Mannattan, Kiley.
Neille Lunette Wreath,	•	Mannattan, (Pottawatomie).
Artnur M. Young,	•	mannattan, Kiley.
Arthur Herbert Thompson, Rudolph Wren Thompson, Carl Burton Tillinghast, Charles Tisdale, Leander Alpheas Tombaugh, Raymond G. Trexler, Claude H. Tucker, Katherine Ann Tucker, Maud Van Tilborg, Edgar Allen Vaughn, Ruth Venables, Terence Vincent, John A. Vohringer, Don Henry Wageman, Bertha Walker, Elsmere Joe Walters, Orville H. Warner, Burt O. Warren, Rees C. Warren, Fern Vena Weaver, Gertrude Weber, Grace Weit, James West, Elizabeth Mae Whipple, Florence Whipple, Lucy Ethel Whipple, Lucy Ethel Whipple, Clifford Wight, Frederic C. Williams, Owen E. H. P. Williams, Shelton Williams, Elmer W. Wilson, Matilda Jane Wilson, Susan Elizabeth Wingfield, Eleanor Cornelia Winne, Dean Wise, John Barton Wise, Reuben E. Wiseman, Joseph Roy Witmer, Charles C. Wolcott, Leroy Bushnell Wolcott, Willis Bruce Wood, Wells Byron Woodman, Florence M. Wolverton, Ada Worley, Oma Alvaretta Worrel, Nellie Lunette Wreath, Arthur M. Young, Charles H. Young, Henry Zimmerman,		Abilene, Dickinson.
Henry Zimmerman,	•	Stilweil, Johnson.

101									
CIT EDDCINE									
SUB-FRESH	W.E.N.								
Name. Lorin L. Abbe,	Post-office and county (or state).								
Lorin L. Abbe,	Nekoma, Rush.								
Lucy Blanche Abbe,	Nekoma, Rush. Leona, Doniphan.								
Edwin R. Acker	Leona, Doniphan.								
Katherine Adams	Manhattan, Riley,								
Roy Ray Albertson	Hardy, (Jewell).								
Edwin R. Acker, Katherine Adams, Roy Ray Albertson, Lee Alder, Howard Aley,	Hardy, (Jewell). Athol, Smith. Cedar Vale, (Cowley).								
Howard Alev.	Cedar Vale, (Cowley),								
Ruby Aley,	Gedar vale, (Gowlev).								
Amel O. Anderson,	Minneanolis, Ottawa.								
Ruby Aley,	Minneapolis, Ottawa. Halifax, Wabaunsee. Webster, Rooks.								
Harry Rooks Anderson,	Webster, Rooks.								
Leonard Adolph Anderson,	Zeandale Kilew								
Joe D. Anderson,	Templeton, California. Beattie, Marshall. Maplehill, Wabaunsee. Haworth, Republic. Haworth, Republic.								
	Reattie Marshall								
Paul L. Anderson,	Manlehill Wahaunsee								
Claude H Arbuthnot	Haworth Republic								
Claude H. Arbuthnot, Elsie Kathryn Arbuthnot,	Haworth Republic								
Charles M. Archibald,	Rose Woodson								
Reynolds Askew,	Mackerille Stafford								
Reynolds Askew,	Macksville, Stafford. Talmage, Dickinson.								
Maurice Edwin Babb,	Wakafield Clay								
Duth Dohh	Walsofield Clay								
D Floring Pophellon	Monhotton Pilox								
D. Flavius Bacheller,	Beattie, Marshall. Maplehill, Wabaunsee. Haworth, Republic. Haworth, Republic. Rose, Woodson. Macksville, Stafford. Talmage, Dickinson. Wakefield, Clay. Wahattan, Riley. Concordia, Cloud. Manhattan, Riley.								
Millie Elizabeth Bade,	Monhatton Pilor								
Addie M. Baird,	Manhattan, Riley. Valencia, Shawnee.								
George H. Baird,	Wantencia, Shawnee.								
U. R. Baird,	Manhattan, Riley.								
Leslie M. Baker,	Washington, Washington. Manhattan, Riley.								
Elsie Kathryn Arbuthnot, Charles M. Archibald, Reynolds Askew, Sue M. Ausherman, Maurice Edwin Babb, Ruth Babb, D. Flavius Bacheller, Millie Elizabeth Bade, Addie M. Baird, George H. Baird, O. R. Baird, Leslie M. Baker, Malvina Maude Baldridge, Raymond Albert Baldwin, Arthur Morgan Balston, Thomas Lloyd Banks, William Thomas Banks,	Mannattan, Kiley.								
Raymond Albert Baldwin, Arthur Morgan Balston,	Atchison, Atchison. Palmer, Washington.								
Arthur Morgan Balston,	Palmer, wasnington.								
Thomas Lloyd Banks,	Independence, Montgomery.								
William Thomas Banks,	Lawrence, Douglas. Madison, Greenwood.								
Edwin Barnard, John Otto Barnes,	Madison, Greenwood.								
John Otto Barnes,	Waterville, Marshall.								
	Powhattan, Brown.								
Milven Benjamin Bateman,	Fowler, Meade. Thayer, Neosho.								
Everett Baxter,	Thayer, Neosno.								
Mabel Evangeline Baxter, John Bayles,	Manhattan, Riley. Manhattan, Riley.								
John Bayles,	Manhattan, Riley.								
A. Pearl Beaman,	Hopewell, Pratt.								
Fred Beck,	Nickerson, Reno.								
Harry Beggs,	Minneapolis, Ottawa.								
James Attison Bell,	Ackerland, Leavenworth. Buffalo, Wilson. Manhattan, Riley.								
J. Oswald Bell,	Buffalo, Wilson.								
J. Oswald Bell,	Manhattan, Riley.								
William H. Best,	Winfield, Cowley.								
Lillian Bischoff,	Washington, Washington.								
James I. Blackwood,	Idana, Clay.								
Lena Francise Blackwood,	Idana, Clay.								
Rena Ellen Blackwood,	Idana, Clay.								
Thomas A. Blackwood,	Idana, Clay.								
George N. Blaine,	Manhattan, Riley.								
Mabel Evangeline Baxter, John Bayles, A. Pearl Beaman, Fred Beck, Harry Beggs, James Attison Bell, J. Oswald Bell, Mina Bellomy, William H. Best, Lillian Bischoff, James I. Blackwood, Lena Francise Blackwood, Rena Ellen Blackwood, Thomas A. Blackwood, George N. Blaine, Charles H. Blake, Eugene F. Bloom, Jacob Bohen, William High Bond, Ralph Chandler Boucher.	Ulysses, Grant.								
Eugene F. Bloom	Pawnee Rock, Barton.								
Jacob Bohen	Hope, Dickinson.								
William High Bond	Manhattan, Rilev.								
Jacob Bohen,	Fowler, Meade.								
Ethyl Bowles.	Buffalo, Wilson. Manhattan, Riley. Winfield, Cowley. Washington, Washington. Idana, Clay. Idana, Clay. Idana, Clay. Idana, Clay. Idana, Clay. Manhattan, Riley. Ulysses, Grant. Pawnee Rock, Barton. Hope, Dickinson. Manhattan, Riley. Fowler, Meade. Lane, Miami. Hewins, Chautauqua.								
Ethyl Bowles,	Hewins, Chautaugua.								
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Name. Besse Hazel Boyer, John L. Boyer, William Boyer, John T. Branson, Raymond U. Brethour, John Calvin Brewer, Hans William Broberg, Glenn Brown, Henry B. Brown, Joseph B. Brown, Lloyd Brownell, Clem Brunker, Albert M. Bucholtz, Alfonso Russell Burnett, Paul Burnett,						Post-office and county (or state).
Besse Hazel Boyer, .		•	•		:	Hewins, Chautauqua. Wilsey, Morris. Wilsey, Morris. Belleville, Republic.
John L. Boyer,			•	٠		Wilsey, Morris.
William Boyer,	•		•	•		Wilsey, Morris.
John T. Branson,	•			•		Belleville, Republic.
Raymond U. Brethour,				•		Green, (Riley).
John Calvin Brewer, .					:	Topeka, Shawnee. Vesper, Lincoln.
Hans William Broberg,						Vesper, Lincoln.
Glenn Brown,						Mont Ida, Anderson.
Henry B. Brown,						Mont Ida, Anderson.
Joseph B. Brown,					:	Jennings, Decatur.
Ollie Frances Brown, .	-					mannattan, Kiley.
Lloyd Brownell,						wilsev, Morris.
Clem Brunker,						Manhattan, Riley. Argentine, Wyandotte.
Albert M. Bucholtz, .						Argentine, Wyandotte.
Alfonso Russell Burnett, Paul Burnett, Ralph T. Burrell, James William Butcher, Alpha Vivia Byarlay,						Toneka, Snawnee.
Paul Burnett,						Hymer, Chase. Utica, Lane. Harper, Harper.
Ralph T. Burrell						Utica, Lane.
James William Butcher.			-			Harner, Harner,
Alpha Vivia Byarlay, . Donald M. Cahill,			-		-	Bala, Riley,
Donald M. Cahill			·	-	Ī	Bala, Riley. Coffeyville, Montgomery.
Wentz Cain,			·		·	Mitchell, Rice.
Bert Camp.		•	•		:	Toneka, Shawnee.
Bert Camp,	•	·	·	•	Ť	Topeka, Shawnee. Ogden, Riley.
Grace Pearl Campbell, Plumb D. Carl, Emil Edgar Cartwright, William Wallace Casteel, Coldia M. Chambers	•	·	•	Ī		
Emil Edgar Cartwright	•	•	•	•	:	Rurlington Coffee
William Wallage Casteel	•	•	•	•	•	Burlington, Coffey. Fort Riley, Geary.
William Wallace Casteel, Goldie M. Chambers, . Agnes Chapman,	•	•	•	•	•	Milford George
Agnes Chanman	•	•	•	•	•	Reloit Mitchell
George W Christie	•	•	•	•	•	Manhattan Riley
Alfred I. Clann	•	•	•	•	•	Yates Center, Woodson.
Agnes Chapman, . George W. Christie, Alfred L. Clapp, . Jessie Anna Clark, Lillie Frances Cobb, Cecil H. Coburn, Fred Coburn, . Chaples Veryon Cochron	•	•	•	•	•	Burlington, Coffey. Fort Riley, Geary. Milford, Geary. Beloit, Mitchell. Manhattan, Riley. Yates Center, Woodson. Riley, Riley. Marion, Marion. Marion, Marion. Silverlake, Shawnee.
Lillio Frances Cobb	•	•	•	•	•	Riley, Riley. Manhattan, Riley.
Coail H Cohum	•	•	•	•	• .	Marian Marian
Fred Cohumn	•	•	•	•	•	Marion, Marion.
Fred Coburn, Charles Vernon Cochran	•	•	•	•	•	Silverlake, Shawnee. Silverlake, Shawnee. Ottawa, Franklin. Manhattan, Riley. Burrton, Harvey.
		•	•	•	•	Cilronlales Charman
Floyd Cochran, Cassius Curtis Coen,	•	•	•	•	•	Ottoma Emplois
Emplify A Coffman	•	•	•	•	•	Manhattan Bila
Franklin A. Coffman, .	•	•	•	•	•	Mannattan, Kiley.
Madge Comes,	•	•	•	•	•	Burrton, Harvey. Topeka, Shawnee.
James Lee Conwell, .	•	•	•	•		ropeka, Snawnee.
Lloyd Conwell,	•	•	•	•		North Topeka, Shawnee.
Halla Marie Cowgill, .	•	•	•	•		Long Island, Phillips. Madison, Greenwood.
Rossie Louane Cox, .	•	•	•	•	•	Madison, Greenwood.
vernon victor Cree, .	•	٠	•	•		Manhattan, Riley. Manhattan, Riley. Woodsdale, Stevens.
Fred Cromer,	•	•	•	•	•	Manhattan, Riley.
Bessie Crotts,	•	•	•	•	•	Woodsdale, Stevens.
Genevieve Cunningham,		•	•			Manhattan, Riley. Manhattan, Riley. Manhattan, Riley.
Virgil Cunningham, .	•	•	•			Manhattan, Riley.
Roy George Currie, .		•				Manhattan, Riley.
Roy C. Curtis,						Lawrence, Douglas,
Carrie Ethel Cutter, .						Lawrence, Douglas. Ogden, Riley. Parker, Linn. Luray. Russell.
Craig Hood Dallas, .						Parker, Linn.
George Hilton Daniels,						Luray. Russell.
John Davidson,						Wichita, Sedgwick.
Alex Earl Davis,						Belleville, Republic.
Arthur Davis,						Fairview, Brown.
Charley Ambrose Davis.						Clay Center, Clay.
Clarence Clyde Davis.						Manhattan, Rilev.
Cora Edith Davis,						Cherryvale, Montgomery.
Franklin A. Coffman, Madge Comes, James Lee Conwell, Lloyd Conwell, Halla Marie Cowgill, Rossie Louane Cox, Vernon Victor Cree, Fred Cromer, Bessie Crotts, Genevieve Cunningham, Virgil Cunningham, Roy George Currie, Roy C. Curtis, Carrie Ethel Cutter, Craig Hood Dallas, George Hilton Daniels, John Davidson, Alex Earl Davis, Arthur Davis, Arthur Davis, Charley Ambrose Davis, Clarence Clyde Davis, Cora Edith Davis, Jessie E. Davis, Ray Robert Davis,						Luray. Russell. Wichita, Sedgwick. Belleville, Republic. Fairview, Brown. Clay Center, Clay. Manhattan, Riley. Cherryvale, Montgomery. Manhattan, Riley. Cherryvale, Montgomery.
Ray Robert Davis						Cherryvale, Montgomery
/		-	•	•	•	Table of the state

William Glenne Davis, Wilma Louise Davis, Fred White Day, Mary Delfs, Lawrence V. Deming, Frank A. Detwiler, Anna DeYoung, Chester Alan Dickhut, Thomas Leroy Dill, Harry Vincent Dilsaver, Marguerite Marie Dion,* Victor Pearl Dixon, William M. Docking, Thomas C. Dodd, Maude Dolton, Robert Emmett Donnelly, Arthur Doryland, Frances Florence Doty, Herbert August Droge, Victor Vincil Dryden, Edward Dueker, Charles Royal Dunlap, Harold Dunn, Edwin R. Dunton, Frederick C. Duttlinger, Henry H. Eddy, Myron F. Eddy, Walton R. Edmonds, Reba Anna Ellison, Dorothy J. Erickson, Hattie Erickson, Hattie Erickson, Harold Arthur Eslinger, Arthur Earl Estabrook, Jesse S. Evans, Mina M. Evans, Clarence William Faidley, Scott Farmer, John B. Fearey, W. B. Fee. Joe A. Feitz, Ruth Marie Ferguson, Wallace Marine Ferguson, Viva M. Fish, Elmer William Forbes, John Mitchell Forbes, David Louis Ford, Lenora Ellen Friedrich, Arthur Fry, Roy C. Fry, Velora A. Fry, Joseph A. Fuller, Eva Garrett, Frederick W. Garrison, Ralph Erie Garrison, Ward Stanley Gates,					Post-office and county (or state).
William Glenne Davis					Clay Center, Clay,
Wilma Louise Davis					Manhattan, Riley.
Fred White Day					Manhattan, Rilev.
Mary Delfs					Inman, McPherson.
Lawrence V. Deming.			-		Larkin, Jackson,
Frank A. Detwiler.	Ĭ.	·			Summerfield, Marshall.
V. Ray Detwiler.	•	•			Summerfield, Marshall.
Anna DeVoung	•	•	•	•	Prairie View Norton
Chester Alan Dickhut	•	•	.•	•	Prairie View, Norton. Turon, Reno.
Thomas Laroy Dill	•	•	•	•	Manhattan Riley
Harry Vincent Dilgaren	•	•	•	•	Athal Cmith
Margarita Maria Dian *	•	•	•	•	Koota Pilow
Victor Poor! Divor	•	•	•	•	Monhotton Pilor
William M Dodring	•	•	•	•	Manhattan Dilar
William M. Docking,	٠	•	•	•	Time Washington
Monda Dollar	٠	•	•	٠	Maniand Casham
Palant Element Description	•	•	•	•	Moriand, Granam.
Robert Emmett Donnelly,	•	•	•	٠	Kansas City, Missouri.
Artnur Doryland,	•	•	•	•	Junction City, Geary.
Frances Florence Doty, .	•	·•	•	•	Manhattan, Kiley.
Herbert August Droge, .	•	•	•	•	Seneca, Nemaha.
Victor Vincil Dryden,	•	•	•		Larned, Pawnee.
Edward Ducker,			•		Woodbine, Dickinson.
Charles Royal Dunlap, .	•	•			Strong City, Chase.
Harold Dunn,			•		Olpe, Lyon.
Edwin R. Dunton,					Lebanon, Smith.
Frederick C. Duttlinger, .					Monument, Logan.
Henry H. Eddy,		-			Clearwater, Sumner.
Myron F. Eddy,					Ingalls, Gray.
Walton R. Edmonds,					Turner, Wyandotte.
Reba Anna Ellison,					Jefferson, Montgomery.
Dorothy J. Erickson,					Lincolnville, Marion.
Hattie Erickson,					Lindsborg, McPherson.
Harold Arthur Eslinger					Kinslev. Edwards.
Arthur Earl Estabrook.		Ī			Raymond, Rice.
Jesse S. Evans.		Ī.			Topeka, Shawnee,
Mina M. Evans.	·	•			Barnes, (Riley),
Clarence William Faidley	•	•	-		Broughton, Clay.
Scott Farmer	•	•	Ť	•	Ætna Barber
John B Fearer	•	•	•	•	Anness Sedawick
W B Fee	•	•	•	•	Stafford Stafford
Ine A Feitz	•	•	•	•	Hore Ellie
Buth Maria Farman	•	•	•	•	Monhotton Pilov
Walloca Marina Formusan	•	•	•	•	Saint Marys, (Jackson).
Vino M Fish	•	•	•	•	Monhotton Dilor
Flmor William Forber	•	•	•	•	Topoleo Chormoo
Toba Mitchell Heaber	•	•	•	•	Topeka, Shawhee.
Demil I amin Florida.	•	•	•	•	Dalas Basis
David Louis Ford,	•	•	•	•	Paico, Kooks.
Lenora Ellen Friedrich, .	•	•	•	•	winkier, kiley.
Arthur Fry,	•	•	•	•	Little River, Rice.
Roy C. Fry,	•	•	•	•	Abilene, Dickinson.
Velora A. Fry,	•	•	•		Manhattan, Riley.
Joseph A. Fuller,		٠.			Madison, Greenwood.
Eva Garrett,		•			
Frederick W. Garrison, .					Ingalls, Gray.
Ralph Erie Garrison,					Ingalls, Gray.
Ward Stanley Gates,					Asherville, Mitchell.
Richard M. Gaw,					Haviland, Kiowa.
Justus William Geelan, .					Lecompton, Douglas.
Lenora Ellen Friedrich, Arthur Fry, Roy C. Fry, Velora A. Fry, Joseph A. Fuller, Eva Garrett, Frederick W. Garrison, Ralph Erie Garrison, Ward Stanley Gates, Richard M. Gaw, Justus William Geelan, Boyd Q. Gentzler, Russell George,					Leona, Doniphan.
Russell George,					Lebo, Coffey.

^{*} Deceased.

Name.						Post-office and county (or state).
Herbert L. Gesner,						Olathe, Johnson. Stilwell, Johnson.
Herbert L. Gesner, Charles Miller Gibson, . Ethel Giles,					:	Stilwell, Johnson.
Ethel Giles						Creat Rend Rarton
Ethel Giles,						Manhattan, Riley.
Liberty Earnest Gingery, Joseph William Gledhill, .						Haddam, Washington.
Joseph William Gledhill.						Portis, Ósborne. Linn, Washington.
Fred Goeken						Linn, Washington.
Camoren S. Goldsmith						Abilene, Dickinson.
Elbert G. Good.						Kansas City. Missouri.
Frank H. Graham						Holton, Jackson.
Daniel Clyde Gridley.						Oakley, Logan.
Lawrence Gridley.						Oakley, Logan.
Harley E. Grubbs.						Burr Oak, Jewell.
Grover Gulick.						Utica, Ness.
John T. Guthrie		•				Walton, Harvey.
Merle D. Gwin.		-				Morrowville, Washington,
Roy F. Hagans.		•	•			Utica, Ness.
O. Preston Hale.		•	:			Eminence, Finney.
Daisy Arminta Hall		•			- [Speed, Phillips.
Grace Jane Hall		•	•		•	Powhattan, Brown.
Thomas Newton Hall.		•	•	-		Hazelton, Barber.
William Edgar Hall		•	•			Havensville, Pottawatomie,
Leona Hallar		•	•			Mancos, Colorado,
Glenn J. Hamma		•	•			Hutchinson, Reno.
Mortimer D. Hancock		•	•	•	•	Manhattan, Riley.
Albert Haney	•	•	•	•	Ī	Courtland, Republic.
Arthur Harnett		•	•	•	•	Jamestown, Cloud.
Vida Agnes Harris	•	•	•	•	•	Manhattan, Riley.
Mahel Joy Harrison	•	•	•	•	•	Riley. Riley.
May M Hatcher	•	•	•	•	•	Hill City, Graham.
Charles Cal Hatfield	•	•	•	•	•	Osborne, Osborne,
Grace Elsie Haynes	•	•	•	•	•	Baldwin, Douglas,
Malcolm Percy Haynes	•	•	•	•	·	Baldwin, Douglas.
Clarence Haywood	•	•	•	•	•	Wilburn, Ford.
Ruby Larel Headley	•	•	•	•	•	Assaria, Saline.
John Hedberg	•	•	•	•	•	Marquette, McPherson,
John Heidy	•	•	•	•		Junction City, Geary,
Laurance Herren	•	•	•	•		Lincoln, Lincoln,
Bassia Anna Himes	•	•	•	•	•	Meeker, Colorado.
Warren LeRoy Hirst	•	•	•	•	•	Hutchinson, Reno.
Arthur Lawrence Hiort		•	•	•		Manhattan, Riley.
Orme Leo Hoch	•	•	•	•	•	Hartford, Lyon,
Norris Shuel Hoone	•	•	•	•	•	Spring Hill, Johnson,
Blanche Hoover		•	·			Canton, McPherson.
Mahel Hoover	•	•	•	•	•	Canton, McPherson.
Edna G Horton		•	•	•	•	Yates Center, Woodson,
Grace E Houser	•	•	•	•	•	Anthony, Harper,
Irvin P Houser	•	•	•	•	·	Anthony, Harper.
Lislie Howell		•	•	•	Ĭ.	Kansas City, Wyandotte.
Archie C Hower	•	•	•	•	•	Sylvan Grove, Lincoln.
Louie C. Hubbell	•	•	•	•		McPherson, McPherson,
Jason M Hughes		•	•	•		Topeka, Shawnee,
Otis Hughes		•	•	•	Ĭ.	Kanona, Decatur,
Perry Robb Hulet	•	•	•	•	•	Russell, Russell.
John Embree Hull	•	•	•	·	•	Lamont, Greenwood.
Wayne G. Hull	-	-				McPherson, McPherson.
Harold Humiston			-			Webber, Jewell.
Daniel Hampton Hunt	-	•	•	•	•	Bigelow, Marshall.
Harry Frank Hunt		-	-			Manhattan, Riley. Haddam, Washington. Portis, Osborne. Linn, Washington. Abilene, Dickinson. Kansas City, Missouri. Holton, Jackson. Oakley, Logan. Oakley, Logan. Oakley, Logan. Burr Oak, Jewell. Utica, Ness. Walton, Harvey. Morrowville, Washington. Utica, Ness. Eminence, Finney. Speed, Phillips, Powhattan, Brown. Hazelton, Barber. Havensville, Pottawatomie. Mancos, Colorado. Hutchinson, Reno. Manhattan, Riley. Courtland, Republic. Jamestown, Cloud. Manhattan, Riley. Riley, Riley. Hill City, Graham. Osborne, Osborne. Baldwin, Douglas. Baldwin, Douglas. Wilburn, Ford. Assaria, Saline. Marquette, McPherson. Junction City, Geary. Lincoln, Lincoln. Meeker, Colorado. Hutchinson, Reno. Manhattan, Riley. Hartford, Lyon. Spring Hill, Johnson. Canton, McPherson. Canton, McPherson. Yates Center, Woodson. Anthony, Harper. Anthony, Harper. Kansas City, Wyandotte. Sylvan Grove, Lincoln. McPherson, McPherson. Topeka, Shawnee. Kanona, Decatur. Russell, Russell. Lamont, Greenwood. McPherson, WcPherson. Webber, Jewell. Bigelow, Marshall. Fredenia, Wilson. Palmer, Washington.
Ralph Edward Hunter	-	-	-	•	` .	Palmer, Washington.
	-	-	-	•	•	

Name.						Post-office and county (or state). Manhattan, Riley. Manhattan, Riley. Hope, Dickinson. Hope, Dickinson. Manhattan, Riley. Isabel, (Pratt). Coldwater, Comanche. Arkansas City, Cowley. Wichita, Sedgwick. Farnsworth, Lane. Frankfort, Marshall. Riley, Riley. Topeka, Shawnee. Frankfort, Marshall. Canton, McPherson. Morrowville, Washington. Lenexa, Johnson. Geneseo, (Ellsworth). Vliets, Marshall. Pratt, Pratt. Hamlin, Brown. Manhattan, Riley. Manhattan, Riley. Manhattan, Riley. Manhattan, Riley. Meade, Meade. Valencia, Shawnee. Garrison, Pottawatomie. Volland, Wabaunsee. Dellvale, Norton. Lexington, Clark. Potwin, Butler. Manhattan, Riley. Eureka, Greenwood. Manhattan, Riley. Eureka, Greenwood. Manhattan, Riley. Eureka, Greenworth. Leavenworth, Leavenworth. Leavenworth, Leavenworth. Leavenworth, Leavenworth. Leavenworth, Lavenworth. Everest, Brown. Prescott, Linn. Bridgeport, Saline. Hiawatha, Brown. Rose, Woodson. Colby, Thomas. Manhattan, Riley. Panhandle, Texas. Manhattan, Riley. Panhandle
Ralph Harper Hunter.						Manhattan, Riley.
Fitz Clark Hurd						Manhattan, Riley.
Mamie Ihde.						Hope, Dickinson.
Martha Henrietta Inde.	•	•	Ĭ.	Ĭ.		Hope, Dickinson,
Guy T Imhoff	•	•	•	•		Manhattan Riley.
Mary Incles	٠.	•	•	•	•	Isahel (Pratt)
Don M. Jackson	•	•	•	•	•	Coldwater Comanche
William Condon James	•	•	•	•	•	Arkanese City Cowley
William Wolter James,		•	•	•	•	Wighita Sadawick
Vone Levice Terminer	٠,٠	•	•	•	•	Farneworth I and
Vera Louise Jennison,	•	•	•	•	•	Evanisfort Marchall
Edward W. Johns,	•	•	•	•	٠	Pilor Pilor
vera L. Johnsmeyer, .	•	•	•	•	•	Tanala Chayrna
Agnes Anna Johnson, .	•	•	•	•	•	Topeka, Shawnee.
Gari Qiaus Johnson, .	•	•	•	•	••	Contain MaDhaman
Lulu B. Johnson,	•	•	٠	•	٠	Tamen Mer nerson.
Muncie Nelson Johnson,	٠	•	•	•	•	Morrowville, washington.
Myron E. Johnson, .	٠	•	•	•	•	Lenexa, Johnson.
Richard Josiah Johnson,	•	•	•	•	•	Geneseo, (Ellsworth).
Sigel Raymond Johnson,	•	•	•	•	•	Viiets, Marshall.
Claude E. Jones,	•	•	•	•	•	Pratt, Pratt.
Glenn C. Jones,	•	•	•		•	Hamlin, Brown.
Emil Oliver Jorgenson,		•	•			Manhattan, Riley.
Oscar Martin Jorgenson,			,			Manhattan, Riley.
Charles Karstetter, .	•					Parsons, Labette.
Raymond Keel,						Manhattan, Riley.
Bruce Keller,						Meade, Meade.
Clede Rex Keller,						Meade, Meade.
John Mulvane Kepley,						Valencia, Shawnee.
Ethel D. Kershaw, .						Garrison, Pottawatomie.
Edgar A. Kietzman, .						Volland, Wabaunsee.
Clare Kimport,						Dellvale, Norton.
Nellie L. King						Lexington, Clark.
Paul King						Potwin, Butler.
John Calvin Kinzer						Manhattan, Riley.
George B. Kirknatrick.						Eureka, Greenwood.
Vera B. Kizer						Manhattan, Riley.
Charles J. Klaumann.						Belleville, Republic.
Michael Knapp						Leavenworth, Leavenworth.
Olive Knapp.	-	-				Leavenworth, Leavenworth.
Sonhia Knann				•		Leavenworth, Leavenworth.
Bennie O. Knudson.	•	:		•	•	Everest, Brown.
Harley Ladd	•	•	•	•	•	Prescott, Linn.
Roland William Lamer	•	•	•	•	•	Bridgenort, Saline,
Arthur Rolland Landis	•	•	•	•	•	Hiawarha, Brown.
Harbert Landa	•	•	•	•	•	Rose Woodson.
Henry Earl Lee	•	•	•	•	•	Colby. Thomas.
John I Lowellon	•	•	•	•	•	Manhattan Riley.
Wolten Till	•	•	•	•	•	Panhandle Texas
Walter Lill,	•	•	•	•	•	Manhattan Riley
Tames Wolten Linn	•	•	•	•	•	Otto Ruch
Dames Walton Linn, .	•	•	•	•	•	Marretta Jackson
Benjamin N. Lincon, .	•	•	•	•	•	Tim Weshington
waiter w. Loemer, .	•	•	•	•	•	Waxanir Coffee
Russel Longwood,	•	•	•	•	•	Waverly, Coney.
Kathleen Lyons,	•	•	٠	•	•	Mannattan, Kney.
Marian McAiee,	•	•	•	•	•	Topeka, Snawnee.
Ellen Agnes McCrawley,	•	•	٠	•.	•	nollenberg, wasnington.
John F. McClure,	•	•	•		•	Atnol, Smith.
Malcolm Lloyd McCune,	•	•	•		•	Leavenworth, Leavenworth.
Oakley C. McIntosh, .	•		•		٠	Washington, Washington.
Ira McKeeman,	•	•	•	•		Soldier, Jackson.
Margaret McKinney, .	•		•		•	Junction City, Geary.

Name.					Post-office and county (or state).
Homer McNamara					
Homer McNamara, Homer H. McNamee, Guy Crawford McWilliams,	•	•	•	•	Soldier, Jackson.
Guy Crawford MaWilliams	•	•	•	•	Plevna, Reno.
M Relle Mackender	•	•	•	•	Manhattan, Riley.
Frank Bartram Magwire	•	•	•	•	Lutabingon Pone
Viola O Mall	•	•	٠	٠	Clar Canton Clar
Arthur Mallo	•	•	•	•	Togrammenth Tagentum
Lowell Manchester	•	•	•	•	Chiles Mismi
Florence S Marchall	•	•	•	•	Tonnings Deserting
Laura A Marchall	•	•	•	•	Jennings, Decatur.
Earl W Martin	•	٠	•	•	Sendie Penallie
Rertha Mae Morty	•	•	•	٠	Torontonal Class
Edward H Maryan	•	•	•	•	Dingrord, City.
John T Mason	•	•	•	•	Fulton Possibon
Paul Dewitte Maurer	•	•	•	•	Dorton Comless
Mary Edith Maywell	•	•	•	•	Manhattan Bilow
Mary E Mayhaw	•	•	•	•	Rolpro Edwards
Ella C. Meyer	•	•	•	٠	Clifton Washington
James T Mayor	•	•	•	•	Clifton Washington.
William T Mover	•	•	•	•	Using Paster
Paul Mingophoek	•	•	•	•	MaDharan MaDharan
Sadio Bollo Mitchel	•	•.	•	•	Menhattan Dilam
Margret Ellenon Moore	•	•	•	•	Mannattan, Kiley.
Murtle Moore	•	•	•	•	Manhattan Bilan
David Willard Morris	•	•	•	•	Mannattan, Kiley.
Edno Morr Morris	•	•	٠	•	Mansas C.ty, wyandotte.
M Edith Morrows	•	•	•	•	Mannattan, Kiley.
Fred Morse	•	•	٠	•	vaterville, Marshall.
Catherine Hardia Mundaela	•	•	•	•	Education Talancia
Robert Murray McCharanna	7.			•	Edgerton, Johnson.
Martha Musch	TAT O	ruo	ck,	٠	Edgerton, Johnson.
Ralph H Mussor	•	•	•	•	Plevna, Reno. Manhatran, Riley. Riley, Riley. Hutchinson, Reno. Clay Center, Clay. Leavenworth, Leavenworth. Chiles, Miami. Jennings, Decatur. Jennings, Decatur. Scandia, Republic. Longford, Clay. Piper, Wyandotte. Fulton, Bourbon. Dexter, Cowley. Manhattan, Riley. Belpre, Edwards. Clifton, Washington. Clifton, Washington. Heizer, Barton. McPherson, McPherson. Manhattan, Riley. Idana, Clay. Manhattan, Riley. Idana, Clay. Manhattan, Riley. Waterville, Marshall. Lebo, Coffey. Edgerton, Johnson. Edgerton, Johnson. Elmo, Dickinson. Abilene, Dickinson.
Frank Lowis Myons	•	٠	٠	•	Monketter Dile
George M. Myong	•	•	•	•	Mannattan, Kney.
Virgia Restrice Myors	•	•	•	•	Monhettan Diles
Harry Clen Nech	•	•	•	•	Mannattan, Kney.
Albert H Nelson	•	•	•	•	Film Calina
Anthony Wayna Nalaan	•	•	•	•	Wolsomer Chammer
Emil Eridolf Nolcon	•	•	•	٠	Clifter Washington
Glenn G Nolson	•	•	•	•	Wellington, Washington.
Irl C. Nicolasz	•	•	•	•	weilington, Sumner.
Nina Belle Niceley	•	•	•	•	Scranton, Osage.
Garald Knowlton Nidon	•	•	•	•	Monketton, Usage.
Clament Nielson	•	•	•	•	Mannattan, Kney.
Guy E. Niemver	•	•	•	•	Poles Press
Nettic Niles	•	•	•	•	Calama Andaman
Ethel Escalem Missen	•	•	•	•	Monkey Diles
Albert W Norlin	•	•	•	•	Mannattan, Kiley.
Ernost Fredrick Morton	•	•	•	•	Vindom, McPherson.
Invin C Novee	•	•	•	•	Jamestown, Cloud.
Lawrence Archibald O'Prion	•	•	•	•	Stockton, Rooks.
James O'Connell	,	•	•	•	Luray, Russell.
Agree Officer,	•	•	•	•	Kiowa, Barber.
Parmond F Olinson	•	•	•	•	Paxico, Wabaunsee.
Nollie Olean	•	•	•	•	Laiontaine, Wilson.
A Clarence Omen	•	•	•	•	narveyville, wabaunsee.
Worl William Oction	•	•	•	•	Leonardville, Kliey.
Catherine Hardie Murdock, Robert Murray McCheyenne Martha Musch, Ralph H. Musser, Frank Lewis Myers, George M. Myers, Virgie Beatrice Myers, Harry Glen Nash, Albert H. Nelson, Anthony Wayne Nelson, Emil Fridolf Nelson, Glenn G. Nelson, Irl C. Nicolay, Nina Belle Nicolay, Gerald Knowlton Nider, Clament Nielson, Guy E. Niemyer, Nettie Niles, Ethel Evelyn Nixon, Albert V. Norlin, Ernest Fredrick Norton, Irvin C. Noyce, Lawrence Archibald O'Brien, James O'Connell, Aaron Officer, Raymond F. Olinger, Nellie Olson, A. Clarence Oman, Karl William Ostlund, George Miles Overlander, Cap Harry Page, Ethel Palmer,	•	•	•	•	Ulyde, washington.
Con Harry Page	•	•	•	•	Mannattan, Kiley.
Ethol Dolmon		•	•	•	Elisworth, Elisworth.
Edici Faimer,		•	•	•	mannattan, kiley.

Name.				Post-office and county (or state).
Frank E. Parker,				Langdon, Reno.
Otto Parker,				Lyons, Rice.
Emma Parsons,				Clements, Chase.
William E. Payne,				Randall, Jewell.
John Pearson,				Ogallah, Trego.
Clarence Clay Perry,				Meade, Meade.
Mae Gertrude Peterson,				Longford, Clay.
Arthur Ray Phelon,				Scranton, Osage.
Cora Edith Phelon,				Scranton, Osage.
Blaine B. Phillips,			•	Waverly, Coffey.
Elmo Read Phipps,			•	Kansas City, Missouri.
Herbert Pierce,		•		Seely, Cowley.
Arley H. Pirtle,				Wilsey, Morris.
Ruth Plumb,				Pleasanton, Linn.
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George W. Pray,				Hope, Dickinson.
Earl F. Price,				Baldwin, Douglas.
Ina T. Priest,				Manhattan, Riley.
Grace Ruth Purdy,				Arkansas City, Cowley.
Jeannette Putnam,				Manhattan, Riley.
Arthur Floyd Rader				Manhattan, Riley.
Alva F. Railsback,				Norcatur, (Norton).
George Hemrod Railsback, .				Norcatur, Decatur.
Roy Austin Railsback,				Langdon, Reno.
Loka Nellie Rairden,				Riley, Riley.
Homer S. Rand				Plainville, Rooks.
Warren D. Rav				Lawrence, Douglas.
Harold Read.				Meade, Meade.
Russell B. Reed				Grantville, Jefferson.
Paul Renard				Concordia, Cloud.
James E. Reser.				Salina, Saline.
Ray McNab Reser				Salina, Saline.
John H. Ressel.				Colony, Anderson.
Ethyl Retzer.				Manhattan, Riley.
William Revel				Chase, Rice.
Leo W. Rexroad.				Darlow, Reno.
Elmer Richard Rhodes				Hope, Dickinson.
Milton Jacob Rhodes.				Hope, Dickinson.
Charles Hoonman Rice.				Strong City, Chase.
Willard Harold Rickel	•	i		Eskridge, Wabaunsee.
Benjamin Harrison Ridlon	•	•		Covville, Wilson.
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Will Roark	•	•	Ĭ.	Manhattan, Riley.
Harnest C Roberts	•	•		Emporia, Lyon.
Emery V M Roberts	•	•	-	Manhattan, Riley.
Clarence Roby	•	•	•	Eureka, Greenwood.
Charles I. Poss	•	•	•	Almena, Norton.
William Decell	•	•	•	Coldwater, Comanche.
Truing Poss	•	•	•	Neodesha, Wilson.
Women Wegler Puggell	•	•	•	Cheney. (Kingman).
Walless Drawson	•	•	•	Tecumseh, Shawnee,
Olastt W. Cara	•	•	•	Willard Shawnee.
Amma Condora	•	•	•	Manhattan, Riley.
Allia Sanders,	•	•	•	Manhattan, Riley.
Empringe Sanders,	•	•	•	Manhattan Riley.
Nelson Dormond Conford	•	٠	. •	Manhattan, Rilev.
Miliam Albert Conford	•	•	•	Kensington Smith.
William Albert Saniord,	•	•	•	Holton Jackson
Name. Frank E. Parker, Otto Parker, Emma Parsons, William E. Payne, John Pearson, Clarence Clay Perry, Mae Gertrude Peterson, Arthur Ray Phelon, Cora Edith Phelon, Blaine B. Phillips, Elmo Read Phipps, Herbert Pierce, Arley H. Pirtle, Ruth Plumb, Ethelyn P. Pray, George W. Pray, Earl F. Price, Ina T. Priest, Grace Ruth Purdy, Jeannette Putnam, Arthur Floyd Rader, Alva F. Railsback, George Hemrod Railsback, Loka Nellie Rairden, Homer S. Rand, Warren D. Ray, Harold Read, Russell B. Reed, Paul Renard, James E. Reser, Ray McNab Reser, John H. Ressel, Ethyl Retzer, William Revel, Leo W. Rexroad, Elmer Richard Rhodes, Milton Jacob Rhodes, Charles Hoopman Rice, Willard Harold Rickel, Benjamin Harrison Ridlon, John M. Roach, Will Roark, Earnest C. Roberts, Emery V. M. Roberts, Clarence Roby, Charles L. Rose, William Rosell, Irving Ross, Homer Wesley Russell, Wallace Rynersom, Olcott W. Sage, Anna Sanders, Elbridge Sanders, Eugene Sanford, Nolan Raymond Sanford, William Albert Sanford, Harry Roscoe Satterfield, Benjamin Scalapino, Emmet Wainwright Schlaegel,	•	•	٠	Francet Brown
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Emmet Wainwright Schlaegel,	•	-	•	Clare, Juliuson.

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Hartley W. Setchell				·	Morland Graham
Lillian Belle Setchell.		•	Ĭ	•	Riley Riley
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Cressa Simmons,					Barnard, Mitchell
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Earl June Smith	,				Colby, Thomas.
Harry McMillen Smith					Codell, Rooks.
Ulysses Jay Smith,					Portis, Smith.
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Howard Sterrett,					Morganville, Clay,
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Mary Stoddard,					Manhattan, Riley,
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Matthias G. T. Torrence, .					Reading, Lyon.
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Name.
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Flora May Voelpel,
Lulu Rhuanna Wakefield,
Morgan B. Wallace,
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Walter Carl Walsten,
Walter S. Russell,
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Rudolph White,
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Ralph Williamson,
Nellie Mae Williamson,
Nellie Mae Williamson,
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Earl J. Willis,
Nigel Wilson,
William Wilson,
Lizzie Harris Wingfield,
Clyde George Winter,
Katie Worrel,
Benjamin Harrison Wright,
Wilbur William Wright,
Edgar Wynkoop,
Richard Yoxall, Post-office and county (or si Manhattan, Riley. Chapman, Dickinson. Wilsev, Morris. Concordia, Cloud. Inman, McPherson. Junction City, Geary. Hiawatha, Brown. Anthony, Harper. Powhattan, Brown. Emporia, Lyon. Barnard, Lincoln. Bala, Riley. Belpre, (Pawnee). Minneapolis, Ottawa. Plevna, Reno. Pendennis, Lane. Name. Post-office and county (or state). Minneapolis, Ottawa.
Plevna, Reno.
Pendennis, Lane.
Wichita, Sedgwick.
Manhattan, Riley.
Longford, Clay.
Manhattan, Riley.
Axtell, Marshall.
Dwight, Morris.
Troy, Doniphan.
Barnes, Washington.
Stanley, Johnson.
Ashton, Sumner.
Ashton, Sumner.
Republic, Republic.
Manhattan, Riley.
Hoxie, Sheridan.
Manhattan, Riley.
Manhattan, Riley.
Dover, Shawnee.
Manhattan, Riley.
Ottawa, Franklin.
Ottawa, Franklin.
Atchison, Atchison.
Sharon Springs, Wallace.

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Earl Wayne Ashwin,	
Grace Aspegren, Republic City, Republic.	
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Lester R. Carter, Russell, Russell.	

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Willis Lee Chapin, Claude M. Cheesman, Alice Clarkson, Philip Henry Colahan, Myrtle Blanche Coleman, Vestal L. Cook, Alba Clargue Dodd					Post-office and county (or state).
Willis Lee Chapin,	•	•	•	٠	Medicine Lodge, Barber.
Claude M. Cheesman,	•	•	•	•	Milan, Sumner.
Alice Clarkson, Philip Henry Colahan, Myrtle Blanche Coleman, Vestal L. Cook, Alba Clarence Dodd, Edward Dorg	٠	٠	•	•	Paradise, Russell.
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Vestal L. Cook,	•	•	•	•	Medicine Lodge, Barber.
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Andrew Flint,	•				Leavenworth, Leavenworth.
Jacob Amos Frey,					Derby, Sedgwick.
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Eldon Fritz,					Valencia, Shawnee.
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Jay Albert Garinger,					Salina, Saline,
Fred Garrett,					McLouth, Jefferson,
Fred Garrett,					McLouth, Jefferson.
Raymond R. Godfrey					Garfield, Pawnee
Claude A. Graden			·	-	Quenemo, Osage.
rrancis r (+ranam			Ĭ		Summerfield, Marshall
Harry S. Grim		·	•	•	Wa Keeney Trego.
Harry H. Hammond			Ī	·	North Toneka Shawnee
Hazel Harris.			•	٠	Great Rend Barton
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Raleigh Klein, Donald G. Krudop, Erma Wilhelmina Kunze,	•	•	•	٠	Mannatian, Kney.
Wile I court I commont	•	•	٠	•	Winkier, Riley.
Milo Leroy Lemmert,	•	•	•	•	Severance, Doniphan.
Milo Leroy Lemmert, Nathan Thaddeus Lemmert, Elizabeth Lewis.	•	•	•	•	Severance, Donipnan.
Elizabeth Lewis,	•	•	٠	•	Kiley, Kiley.
Gertrude Mary Littlechild,	•	•	•	•	Wa Keeney, Trego.
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Thomas A. Lowe,	•	•	٠	•	Liberal, Seward.
Joseph Elmer Lutz,	•	•	٠	•	Wilburn, Ford.
William H. McClure,	•	•	٠	•	Kingman, Kingman.
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Grace McNamee,	•	•	•	•	Pievna, Keno.
Clyde Massey,	•	•	•		Garneid, Edwards.
Harvey Maxey,	•	•	٠	•	Kinsley, Edwards.
Eugene Ralph Meier,	•	•	•	•	Atchison, Atchison.
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William H. McClure,			•	•	Fowler, Meade. Lincolnville, Marion. Bancroft, Nemaha. Leavenworth, Leavenworth. Derby, Sedgwick. Goessel, Marion. Valencia, Shawnee. Clay Center, Clay. Salina, Saline. McLouth, Jefferson. McLouth, Jefferson. Garfield, Pawnee. Quenemo, Osage. Summerfield, Marshall. Wa Keeney, Trego. North Topeka, Shawnee. Great Bend, Barton. Banner, Trego. Hoisington, Barton. Bala, (Clay). Manhattan, Riley. Manhattan, Riley. Chapman, Dickinson. Grantville, Jefferson. Manhattan, Riley. Palmer, Washington. Falun, Saline. Windom, McPherson. Mankato, Jewell. Clafin, Barton. Shannon, Atchison. Baldwin, Douglas. Topeka, Shawnee. Manhattan, Riley. Winkier, Riley. Severance, Doniphan. Severance, Doniphan. Riley, Riley. Wa Keeney, Trego. Wa Keeney, Trego. Wa Keeney, Trego. Liberal, Seward. Wilburn, Ford. Kingman, Kingman. Manhattan, Riley. Plevna, Reno. Garfield, Edwards. Kinsley, Edwards. Atchison, Atchison. Wilder, Johnson. Olathe, Johnson.

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Leroy A Monroe		. '	_	Fredonia, Wilson.
Clara Mass		•	•	Beloit Mitchell
Averat W Moleon		•	•	Manhattan Riley
Delbart Melani,		•	•	Monhottan Riley
Delbert Nelson,		•	•	Cinand Crawford
Oscar C. Nelson,		•	•	Girard, Crawtord.
Theodore E. Nicolay,		•	•	Scranton, Usage.
Paul Nixon,		•	•	Kiley, Kiley.
Roy W. Nixon,		•	•	Manhattan, Riley.
Clement W. Norton,		•		Barnard, Lincoln.
Jesse Edward Nothrogel				Manhattan, Riley.
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Por T Die++		•	•	Ætna. Barber.
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Onaries Potter,		•	•	Fimont Chaumas
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Alma Elizabeth Sterling.				Carlton, Dickinson.
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Chattie Warren,			•	Formoso, Jewell.
Samuel B. Webb				Hardy, (Kepublic).
Earl Williams				Baldwin, Douglas.
Harry O. Willis.				Eureka, Greenwood.
Ren F Winner				North Topeka, Shawnee.
Emma Wulfkuhl	_			Lecompton, Douglas.
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SPECIAL STUDENTS.

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Jay O. Baird,	•	•	•	•	Manhattan, Riley.
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(Mrs.) Gertrude N. Beall,	•	•	•	•	Manhattan, Riley. Bala, Riley.
James Burns Bond, .	•		•	•	Dara, mey.

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Earnest Earl Ferguson, .				-	Valley Falls, Jefferson.
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Lucius Grant Folsom, .					Little River, Rice.
madel madd runer,				- 1	Glasco, Cloud.
Alice Maude Gaden					Riley, Riley.
Newella White Gilfillan, .				3	Beloit, Mitchell.
James H. Hershey,				. (Olathe, Johnson.
Usamana Usaraham					Man Latton Dilam
Esta Jane Hungerford, .				;	Soldier, Jackson.
Hallie Kallenbach,					Walnut, Crawford.
Esta Jane Hungerford, Hallie Kallenbach, Harry L. Kent, Elizabeth Eugenia King, Mabel Louise Landon, Margaret Marie McVicar, Robert J. Mackey, Hattie Beecher Miller, Losie C. Miller				1	Hays, Ellis,
Elizabeth Eugenia King, .					Port Allegany, Pennsylvania.
Mabel Louise Landon, .					Russell, Russell.
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Robert J. Mackey,				'	Topeka, Shawnee.
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Josie C. Miller, (Mrs.) Belle Norton,					ixalisas Oloy, 11 yalidooc.
(Mrs.) Belle Norton,					Barnard, Lincoln.
Noborn Nosay,					Manhattan, Riley.
					Manhattan, Riley.
Harry A. Phillips,					Warrensburg, Missouri.
Frank W. Ranney,				- 1	Osawatomie, Miami.
Evan H. Richardson,					Havensville, Pottawatomie. Manhattan, Riley.
Harry A. Phillips, Frank W. Ranney, Evan H. Richardson, Fannie Roark, Mary Rodgers, Floyd Royer, Mary Alice Smith, LaVerne Spake, William E. Trickett, Ethel Elnora Wear					Manhattan, Riley.
Mary Rodgers,					Manhattan, Riley.
Floyd Royer,					Effingham, Atchison.
Mary Alice Smith,					Manhattan, Riley.
LaVerne Spake,					Kansas City, Wyandotte.
William E. Trickett,					Kansas City, Wyandotte.
Ethel Elnora Wear,					Barnard, Lincoln.
Agnes Woestemeyer,				- 3	Bethel, Wyandotte.
Clifford C. Young,					Manhattan, Riley.
Ethel Elnora Wear, Agnes Woestemeyer, Clifford C. Young, Byrdie Yoxall,	•	•	•	1	Sharon Springs, Wallace.

DAIRY SHORT COURSE—SECOND TERM.

Will G. Engle,				Abilene, Dickinson.
Floyd Oliver Ergenbright,				Independence, Montgomery.
Jeff Goatley,			. •	Clyde, Cloud.
George W. Loomis,				Girard, Crawford.
G. H. Sweeney,	•			Rosedale, Wyandotte.
F. Werner,	•	•		Wichita, Sedgwick.

DAIRY SHORT COURSE—First Term. Stephen Abbett

Stephen Abbott,					Manhattan, Kiley.
James F. Adee,					Weaubleau, Missouri.
Oscar C. Ellison,					Jefferson, Montgomery.
Earnest Earl Fer	gus	on,			Valley Falls, Jefferson.
Alva Leroy Hamil	lton	٠,			Salina, Saline.
Guy E. Niemyer,					
Lee McKissick,					Minneola, Clark.
Noborn Nosay.					Manhattan, Riley.
Loraine Pitzer.					Ottawa, Franklin.
Ben F. Sweet					Manhattan, Riley.
ouis Tebow					Jamestown, Cloud.
Perry Stevens Tic					
	-,				• •

FARMERS' SHORT. COURSE—SECOND TERM.

Name.					Post-office and county (or state).
Jay O. Baird,					Manhattan, Riley.
Walter Andrew Bartholf		•	•	•	Manhattan, Riley.
Angust Rizek		•	•	•	Timken, Rush.
Frank W Chamberlin		•	•	•	Carbondale, Osage.
Onvilla D. Clark		•	•	•	Belpre, Edwards.
Clyde Clarence Cook		•	•	•	Russell, Russell.
Ermeet L. Cromb		•	•	•	Ellis, Ellis.
William Droegemueller		•	•	•	Hanover, Washington.
Vernon R. Dryden,		•	•	:	Larned, Pawnee.
Victor Vincil Dryden,					
Daniel Webster Eastman, .		•	•	•	Thurman, Chase.
173					
Roy C. Fry, Clarence G. Gustafson, Reuben J. Haffa, Frank O. Holland, John Ben Hughes, Anton J. Kvicala, Edward J. McQuellen, jr., Stonber D. Noedbar		•	. •	•	Abilene, Dickinson.
Clarence G Gustafson			•	•	Galva, McPherson.
Ranhan I Haffa		•	•	•	Russell Russell
Fronk O Holland		•	•	•	Toneka Shawnee.
Tohn Bon Hugher		•	•	•	Arkansas City, Cowley.
Anton T Wrigala		•	•	•	Cummings, Atchison.
Edward T McQuellen in		•	•	•	Clifton, Washington.
Stanhan D. Naadham		•	•	•	Rantoul, Franklin.
Stephen D. Needham, Cyrus W. Nelson,		•	•	•	El Dorado, Butler.
Deter Christian Nielson		•	•	•	Vesner Lincoln
Peter Christian Nielson, Fred Oscar Olson, Fred B. Parken, George W. Peck,		•	•	•	Brookwille Saline
Fred Oscar Olson,	•	•	•	•	Morrowville Washington
Coorgo W Pook	٠.	•	• .	•	Morrowville, Washington. Meriden, Jefferson. Little River, Rice.
Edward Poiller	•	•	•	•	Little River Rice
Por Pinchont		•	•	•	Barnal Rano
Albert Nicholas Pooch	•	•	•	•	Lowemont Leavenworth
Emart E Podonhove	•	•	•	•	Halstead Harvey
Desid Took Potheroiles	•	•	•	•	Ricon Ruch
David Leon Rothweiter,	•	•	•	•	Tinton Mitchell
Henry John Seidel,	•	•	•	•	Horrt Tackson
William Edwin Sunth,	•	•	•	•	Meade Meade
Edward Reilly, Ray Rinehart, Albert Nicholas Roach, Ernest F. Rodenberg, David Leon Rothweiler, Henry John Seidel, William Edwin Smith, H. Fesler Stalder, Lohn Roymond West	•	•	•	•	Lawrence, Douglas.
William H. Wilke, Wilmer Wilson, Raymond Wright,	•	•	•	•	Osage City Osage
Permand Whicht	•	•	•	•	Winfield Cowley
raymond wright,	•	•		•	William, Comicy.

FARMERS' SHORT COURSE—FIRST TERM.

Howard Aley,							Cedar Vale, (Cowley).
Bert R. Anderson, .	•	•					McPherson, McPherson.
Edward Antene, .	•	•	•	•	•	•	Ada, Ottawa,
Edward Amene,	•	•	•	•	•	•	Domono Franklin
Earl Wayne Ashwill,	٠	•	•	•	•	•	Br. J. H. Chaffend
Reynolds Askew, .							Macksville, Stafford.
Edwin Barnard							Madison, Greenwood.
Theodore C. Barnes,			_				Emporia, Lyon.
William Thomas Bell,							Oskaloosa, Jefferson.
Lewis Ordo Benton,							Manhattan, Riley.
							Pratt, Pratt.
William E. Berg, .							
Albert Billing	٠						Courtland, Republic.
Carl Madison Blaine,							Hiawatha, Brown.
Jacob E. Bleam, .							Bloomington, Osborne.
Frank A. Bower, .							Folsom, Haskell.
Flank A. Dower, .	•	•	•	•	•		
Joseph Bower,	•	٠.	•	•	•	٠.	r orsoni, masken.
Francis M. Boyer, .					•	•	Limit, washing our.
Harry A. Bragg, .							Dodge City, Ford.
		•					Hollenberg, Washington.
oan premiers,	•	•	•	•	•	•	

Name.						Post-office and county (or state). Creen, Riley. Horton, Brown. Jennings, Decatur. Bremen, Marshall. Manhattan, Riley. Clifton, Washington. Girard, Crawford. Coffeyville, Montgomery. Buhl, Idaho. Medicine Lodge, Barber. Sabetha, Brown. Lyons, Rice. Russell, Russell. Lubbock, Texas. Luray, Russell. Saint Francis, Cheyenne. Lost Springs, Marion. Leavenworth, Leavenworth. Lawrence, Douglas. Emporia, Lyon. Abilene, Dickinson. Thurman, Chase. Ætna, Barber. Clearwater, Sumner. Dwight, Morris. Turner, Wyandotte. Penokee, Graham. Stockdale, Riley. Halstead, Harvey. Carbondale, Osage. Jefferson, Montgomery. Jefferson, Montgomery. Jefferson, Montgomery. Abilene, Dickinson. Falun, Saline. Kinsley, Edwards. Manhattan, Riley. Wamego, Wabaunsee. El Dorado, Butler. Lawrence, Douglas. Ozawkie, Jefferson. Saint John, Stafford. Jewell, Jewell. Caney, Montgomery. Ottawa, Franklin. McLouth, Jefferson. Leona, Doniphan. Elmdale, Chase. Wakefield, Clay. Topeka, Shawnee. Clay Center, Clay. Luray, Osborne. Emporia, Lyon. Walton, Harvey. Florence, Marion. Holton, Jackson. Hutchinson, Reno. Olsburg, Pottawatomie Minneapolis, Ottawa. Beloit, Mitchell. Ottawa, Franklin.
Raymond U. Brethour.				_	_	Green, Riley,
Walter Broaddus	-		-		•	Horton, Brown.
Joseph B. Brown.		-	•	•	•	Jennings, Decatur
Joseph W. Bruna						Bremen, Marshall
Fred Brunker						Manhattan, Riley,
Curtis H. Burk						Clifton, Washington,
Leo J. Bush						Girard, Crawford.
Donald M. Cahill						Coffevville, Montgomery,
Ralph Waldo Cammack.						Buhl. Idaho.
Willis Lee Chapin, .						Medicine Lodge, Barber.
Richard Christenson, .						Sabetha, Brown.
Ira E. Cline,						Lyons, Ŕice.
Earl Milo Cook,						Russell, Russell.
Bob Crump,						Lubbock, Texas.
George Hilton Daniels,						Luray, Russell.
Wayne Danielson,						Saint Francis, Cheyenne.
Howard Dickerson, .						Lost Springs, Marion.
William Rudolph Drews,						Leavenworth, Leavenworth.
Cleveland E. Dunigan,						Lawrence, Douglas.
William L. Durfey, .						Emporia, Lyon.
Thomas H. Easter, .	•		•	•	•	Abilene, Dickinson.
Ray Arthur Eastman,		•	•	•		Thurman, Chase.
Alexander Eckert, .	•	•	•	•		Ætna, Barber.
Henry H. Eddy,	•	•	•	•	•	Clearwater, Sumner.
Chauncey G. Edgerton,	•	•	•	•	• .	Dwight, Morris.
Walton R. Edmonds, .	•	٠	•	•	•	Turner, Wyandotte.
Clyde James Egee, .	•	•	•	•	•	Penokee, Graham.
Richard J. Ellis,	٠	•	•	•	•	Stockdale, Kiley.
Robert J. Ellis,	•	•	•	•	•	Halstead, Harvey.
Walter Raiph Ellis,	•	•	•	•	•	Carbondale, Usage.
Ownin Filian	•	•	•	•	•	Jefferson, Montgomery.
Hostetter Engle	•	•	•	•	•	Ahilena Dickinson
Paul J. Englund	•	•	•	•	•	Falun Salina
Harold Arthur Eslinger.	•	•	:	•	•	Kinsley Edwards
Howard H. Evans						Manhattan, Riley.
August Feyh,						Wamego, Wabaunsee.
Earl Finney,						El Dorado, Butler.
Guy M. Folks,						Lawrence, Douglas.
Joseph Henry Fowler,						Ozawkie, Jefferson.
Arthur L. Francis, .						Saint John, Stafford.
John Herbert Frank, .			•	•		Jewell, Jewell.
Frank Freedline,	•	•	•		•	Caney, Montgomery.
Glen W. Gage,	•	•	•	•	•	Ottawa, Franklin.
Fred Garrett,	•	•	•	•	•	McLouth, Jefferson.
Boyd Q. Gentzler,	•	•	٠	•	•	Leona, Doniphan.
Orville E. Giger,	•	٠	•	•	•	Elmdale, Chase.
Robert Ray Ginrich, .	٠	•	•	•	•	Wakefield, Clay.
Charles Crainger	•	•	•	•	•	Topeka, Snawnee.
Clude Grantham	•	•	•	•	•	Luxor Ochomo
Roy M Gray	•	•	•	•	•	Emporie I wan
Iohn T Guthrie	•	•	•	•	•	Walton Harrow
Hans Peter Haack	•	•	•	•	•	Florence Marion
Robert Merrill Hamm	•	•	•	•	•	Holton Jackson
Glenn J. Hamma.	:	:	•	•	•	Hutchinson, Reno.
George F. Hanson.				•	:	Olsburg, Pottawatomie
Fred A. Harder					•	Minneapolis, Ottawa.
Fred A. Harrington, .						Beloit, Mitchell.
Otto W. Hinderliter, .						Ottawa, Franklin.
•						•

••		Post-office and county (or state).
Name. William Adolphus Horne, Earl Howard, Arlow J. Howe, Charles Franklin Hoyt, Arthur R. Ihde, Aldie P. Immenschuh, William Walter Jennings, Andrew A. Johnson, David E. Johnson, Claude E. Jones, Riley Jones, Raymond Hanby Kellenberger, Harrison Kerr,		
William Adolphus Horne,		Williamsburg, Franklin.
Earl Howard,	•	Centralia, Nemaha.
Arlow J. Howe,	•	Buffalo, Wilson.
Charles Franklin Hoyt,		Reading, Lyon.
Arthur R. Ihde,		Hope, Dickinson.
Aldie P. Immenschuh,		Manhattan, Riley.
William Walter Jennings		Wichita, Sedgwick. Quenemo, Osage. Macksville, Stafford. Pratt, Pratt.
Andrew A. Johnson.		Quenemo, Osage.
David E. Johnson		Macksville, Stafford.
Claude F. Jones	•	Pratt. Pratt.
Dilar Topog	•	Mankato, Jewell.
Darmond Homber Kollenberger	•	Independence, Montgomery.
Raymond Handy Kenenberger,	•	Sahatha Namaha
Harrison Kerr,	•	Olahama Patamatamia
Charles King,	٠	Ulsburg, Fotawatomie.
Joseph W. Knedlik,	•	Hanover, wasnington.
Henry Oliver Knudson,	•	Everest, Brown.
Earl Herbert Landis,	•	Doniphan, Doniphan.
William Larson,		Powhattan, Brown.
Sidney M. Lawson,		Sylvan Grove, Lincoln.
Milo Lerov Lemert,		Severance, Doniphan.
Leo Herman Libel		Leona, Doniphan.
Arthur Lonnberg.		Topeka, Shawnee.
Warren Irven Lowrey		Stafford, Stafford.
Dudlor Linger	•	Mayetta, Jackson,
Taranh Elman Lutz	•	Wilhurn Ford
Toleral Mallie Made	•	Tonoka Shawnee
Leland Nellis McAtee,	•	Topola, Shawnee.
Homer A. McGilligan,	•	Washington Washington
Clayton Alexander McIntosn,	٠	washington, washington.
Dan McNicol,	•	Lost Springs, Marion.
South Wesley McNown,	•	Moline, Chautauqua.
Allen Mayhew,	٠	Belpre, Edwards.
Harold Gibson Miller,		Ada, Ottawa.
Carl A. Mills,*		Cedar Vale, Chautauqua.
Harry W. Minner.		Lost Springs, Marion.
Lester C. Moore		Union Star, Missouri.
Charles Moorehead		Hollenberg, Washington.
Robert Murray McChevenne Murdock		Edgerton, Johnson.
Gistr D Nelson	, :	Circleville, Jackson,
Occar C Molson	•	Girard, Crawford.
Con Harry Page	•	Ellsworth Ellsworth.
Tames Detterger	•	Clay Center Clay
James Fatterson,	•	Carrigon Pottagratomia
Albert A. Peterson,	•	Falmidae Webeungee
James Andrew Pringle,	•	Eskriage, wabaunsee.
Alva F. Rallsback,	٠	Norcatur, (Norton).
James Donald Reardon,	•	Liberty, Montgomery.
Hally H. Rector,		Glen Elder, Mitchell.
James E. Reser,		Salina, Saline.
Godfrey Rezac,		Saint Marys, Pottawatomie.
James T. Robertson,		Manchester, Dickinson.
Temple Robinson		Manhattan, Riley.
Clarence Roby		Eureka, Greenwood.
Floyd Rover		Effingham, Atchison.
George L. Runvan		Baldwin, Douglas,
Willard I Rush	•	Stilwell, Wyandotte
Angust A Sampon	•	Ludell, Rawlins
Togonh Schwarz	•	Lebanon Smith
Earl Chaffer	•	Denison Jackson
Anabia D Charr	•	Haddam Washington
Commo Firil Ciomon	•	Wakafald Clay
Claude E. Jones, Riley Jones, Raymond Hanby Kellenberger, Harrison Kerr, Charles King, Joseph W. Knedlik, Henry Oliver Knudson, Earl Herbert Landis, William Larson, Sidney M. Lawson, Milo Leroy Lemert, Leo Herman Libel, Arthur Lonnberg, Warren Irven Lowrey, Dudley Lunger, Joseph Elmer Lutz, Leland Nellis McAfee, Homer A. McGilligan, Clayton Alexander McIntosh, Dan McNicol, South Wesley McNown, Allen Mayhew, Harold Gibson Miller, Carl A. Mills,* Harry W. Minner, Lester C. Moore, Charles Moorehead, Robert Murray McCheyenne Murdock Guy D. Nelson, Oscar C. Nelson, Cap Harry Page, James Patterson, Albert A. Peterson, James Andrew Pringle, Alva F. Railsback, James Donald Reardon, Hally H. Rector, James E. Reser, Godfrey Rezac, James T. Robertson, Temple Robinson, Clarence Roby, Floyd Royer, George L. Runyan, Willard I. Rush, August A. Sampson, H. Joseph Schwarz, Earl Shaffer, Archie R. Shaw, George Elvill Siemen,	•	waneneju, Olay.

^{*} Deceased.

Name.						Post-office and county (or state).
Herman Snyder,						Talmage, Dickinson.
Ralph C. Spitler,						Wellington, Sumner.
Will P. Steiner						Olathe, Johnson.
John B. Stevenson, .						Beverly, Lincoln.
Elliott N. Stites,						Hope, Dickinson.
Starley Sullivant, .						Waverly, Coffey.
Hugh Otto Taylor, .	÷.					Zenith, Stafford.
Richard Samuel Gwynne	Th	$_{ m iom}$	as,		-	Hiawatha, Brown.
Wilfred Thompson, .	•	•	٠			Gypsum, McPherson.
Robert E. Tichenor,	٠	-	•	•	-	
William E. Trickett, .	•	•	•			Kansas City, Wyandotte.
Frank J. Turner,	•	•	•	•	•	Manhattan, Riley.
Clarence F. Warren, .	•		•	-	•	
William J. Warrenburg,	•	•	•	•	•	Centralia, Nemaha.
Andrew D. Wear,	•	•	•	•		
Lanius Emmett Weckman						
Henry Wenger,	•	•	•	•	•	Powhattan, Brown.
Willard McCune White,	•	•	•	٠	•	Peabody, Marion.
Harry Q. Willis,	•	•	•	•	•	Eureka, Greenwood.
Julius Winter,	•	•	٠	٠	٠	Andale, Sedgwick.
George Barnette Wise,	٠	•	•	٠	•	Centralia, Nemana.
Herman Wolf,	٠	•	•	٠	•	Hollenberg, Washington.
Joseph Zima,	•	•	•	•	•	Emmett, Pottawatomie.

DOMESTIC SCIENCE SHORT COURSE—SECOND TERM.

Clarinda Alayandar				Manhattan Bilow
Clarinda Alexander, Nellie Blanch Alexander, Lena Beck,	•	•	•	Manhattan, Riley.
Tong Pools	•	٠.	•	Clay Center, Clay.
Nima Cantum de Baskatt	•	•	•	Nickerson, Reno.
Mina Gertrude Deckett,	•	•	•	Olathe, Johnson.
Anneue Frances Bigier				Gypsum, Saline,
Eva Binns,	•	•	•	Minneapolis, Ottawa.
Eva Blanchard,	•		•	Bennington, Ottawa.
Florence Bower,	•			Manhattan, Riley.
Edith E. Brown,	•			Whiting, Jackson.
Elizabeth Jane Brown,				Whiting, Jackson.
Mabelle G. Burk,				Clifton, Washington.
Florence Bower, Edith E. Brown, Elizabeth Jane Brown, Mabelle G. Burk, Jurine Carlson, Kinnie Carter,				Clifton, Washington. Almena, Norton.
Kinnie Carter.				Fulton, Bourbon.
C. Grace Clarkson,				Paradise, Russell.
Clara M. Colberg.	•			Lorraine Ellsworth
Florence R. Dickey	•	•	•	Nawton Harvay
Della Elizabeth Donnell	•	•	•	Achland Clark
Mrs.) Essie Cromb, Florence R. Dickey, Della Elizabeth Donnell, Hallie Caroline Drake, Lulu Irene Drake, Laura Grace Epling, Zilphia Essmiller, Bonnie Evans, Mary Jeanette Fish, Rebecca Francis, Marie Fritch.	•	•	•	Monhattan Pilow
Lulia Irana Draka	•	•	•	Manhattan Dilar
Loure Cross Enline	•	•	•	Trainactan, Kney.
Zilphia Familla	•	•	•	Holton, Jackson.
Damis Essimiler,	•	•	•	Great Bend, Barton.
Donnie Evans,	•	٠	•	Manhattan, Riley.
Mary Jeanette Fish,	•	•		Manhattan, Riley.
Rebecca Francis,	•			St. John, Stafford.
Marie Fritch,				Sabetha, Nemaha.
Marie Fritch, Florence Virginia Fullington,				Idana, Clay.
Alice Maude Gaden,				Riley, Riley.
Myrtle Elvretta Garinger, .				Salina, Saline.
Alice Giles,				Great Bend, Barton.
Clara Alice Graham.	-			Chapman, Dickinson,
Della R. Gould.		•	•	Jamestown Cloud.
Abbie B. Hall.	•	•	•	Saint John Stafford
Alice Maude Gaden, Myrtle Elvretta Garinger, Alice Giles, Clara Alice Graham, Della R. Gould, Abbie B. Hall, Huldah E. Hanson, Julia Hanson,	•	•	•	Margratta McPherson
Julia Hanson	•	•	•	Toone Doninhan
owner manoung	•	•	•	reous, rouipnan.

Name.				Post-office and county (or state).
Ido E Hossobrook	•	•	•	Manhattan Piley
Mrs. M. Franc Harris, Ida F. Hassebroek, Ruby Larel Heasley, Alys Heidy, Nelle M. Hinkson, Jessie Hofer, Mae Elizabeth Holl, Lizzie Homburg, Clara D. Hooper, Sue Burr Inskeep, Ruth Agnes Johnson, Lulu B. Johnson, Elizabeth Eugenia King, Annie Graham Knight,	•	•	•	Accepie Coline
Alm Hoider	•	•	•	Assaria, Janne.
Allys Heldy,	•	•	•	MaDhaman MaDhaman
Nelle M. Hinkson,	•	•	•	Wich nerson, Wich nerson.
Jessie Holer,	•	•	•	Kensington, Smith.
Mae Elizabeth Holl,	•	•	•	Russell, Russell.
Lizzie Homburg,	•	•	•	Ellsworth, Ellsworth.
Clara D. Hooper,	•	•	•	Junction City, Geary.
Sue Burr Inskeep,	•			Manhattan, (Pottawatomie).
Ruth Agnes Johnson,	•			Olsburg, Pottawatomie.
Lulu B. Johnson,				Canton, McPherson.
Elizabeth Eugenia King,				Port Allegany, Pennsylvania.
Annie Graham Knight,				Chapman, Dickinson.
Ruth Cleveland Koger,				Manhattan, Riley.
Minnie Kraettli,				Clay Center, Clay.
Lottie Irene McCammon				Manhattan, Riley.
Cora Elsie McComb				Webster, Rooks.
Myrtle McFadden		_		Stafford, Stafford.
Janet L. McLaughlin.				Hiawatha, Brown.
Ila Moore Manners	Ĭ.	Ī	•	Garnett, Anderson.
Sadie M Marvin	•	•	•	Emporia Lyon
Maggie R May	•	•	•	New Cambria Saline
Nollie May	•	•	•	Manhattan Riley
Amenda Mellios	•	•	•	Clifton Clay
Tudio F Mollhogon	•	•	•	Larraina Elleworth
Elizabeth Marry Margan	•	•	•	Wutahingan Pana
Control Viels Malan	•	•	•	Ctown Moocho
Wells T Desley	•	•	•	Marrian Wanter
Mable J. Ragiand,	•	•	•	Newton, narvey.
Augusta Kinenart,	•	•	•	Manhattan Dilam
Fannie Roark,	•	•	•	Mannattan, Kiley.
Eunice Estelle Robinson,	•	•	•	Sabetna, Nemana.
Lila May Rose,	•	٠	•	Holton, Jackson.
Lillie May Sage,	•	•		Willard, Shawnee.
Nina E. Shaffer,				Denison, Jackson.
Pearl Theressa Janette Straub,				Manhattan, Riley.
Juanita Taylor,				Wichita, Sedgwick.
Edith Thompson,				Minneapolis, Ottawa.
Edna Helen Thompson				Minneapolis, Ottawa.
Alma Willametta Warden				Lyons, Rice.
Ruth Agnes Johnson, Lulu B. Johnson, Elizabeth Eugenia King, Annie Graham Knight, Ruth Cleveland Koger, Minnie Kraettli, Lottie Irene McCammon, Cora Elsie McComb, Myrtle McFadden, Janet L. McLaughlin, Ila Moore Manners, Sadie M. Marvin, Maggie B. May, Nellie May, Amanda Mellies, Lydia E. Mollhagen, Elizabeth Mary Morgan, Gertrude Viola Nelson, Mable J. Ragland, Augusta Rinehart, Fannie Roark, Eunice Estelle Robinson, Lila May Rose, Lillie May Sage, Nina E. Shaffer, Pearl Theressa Janette Straub, Juanita Taylor, Edith Thompson, Edna Helen Thompson, Alma Willametta Warden, Verda White, Sopha Williams, Madge Elizabeth Wiltrout, Ada Worley,				Osage City, Osage.
Sonha Williams.	-			Darlow, Reno.
Madge Elizabeth Wiltrout	·	•		Logan, Phillips.
Ada Worley	•	•	•	Natoma Osborne
TIGO 11 OTICI),	•	•	•	TIMESTALLY CONCINCT

DOMESTIC SCIENCE SHORT COURSE—FIRST TERM.

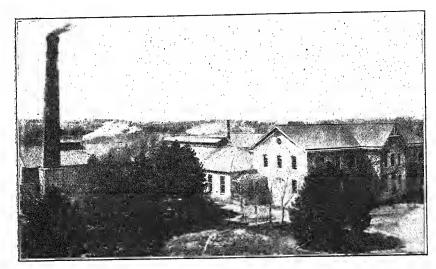
Ruby Aley,				Cedar Vale, Cowley.
Margaret K. Batchelor	,			Manhattan, Riley.
Lillie Colburn,				McPherson, McPherson.
Mamie Cortner,				Lucas, Russell.
Gertrude I. Deibler, .				Manhattan, Riley.
Talitha Edith Dittemore	е, .			Highland, Doniphan.
Lydia Anna Duffey, .	΄,			Atchison, Atchison.
Mary Augusta Eastland				
Grace Evans,	٠,			Manhattan, Riley.
Mabel Maud Fuller, .				
Pauline Gertz,				Marion. Marion.
Edna Goodman,				Lenora, Norton.
Selma Hanneman,				
Ora D. Houser,				Anthony, Harper.

Name.				Post office and secretary
				Post-office and county (or state).
Faye E. Jacobus,				Udall, Cowley.
Ellen Marie Jameson.	_			Manhattan Pilozz
Edna E. Johnson,				El Campo, Texas.
Edna E. Johnson,				Manhattan, Riley.
Minie Klein,				Hutchinson, Reno. Westmoreland, Pottawatomie. Alma, Wabaunsee. Westmoreland, Pottawatomie. Darlow, Reno. Green, Riloy.
Margaret Garnette McKimen	ıs, .			Westmoreland, Pottawatomie.
Lizzie Carrie Maas,				Alma, Wabaunsee.
Mary Virginia Morris,				Westmoreland, Pottawatomie
Eula Nantz,				Darlow, Reno.
Mabel M. Olsen,				Green, Riley,
Mabel M. Olsen, Alta Perham, Mand Billeham				McPherson, McPherson
Minnie Emma Reich,				Hope, Dickinson.
Eva Sandborn,				Blue Rapids, Marshall
Margaret Scott,				Barrett, Marshall
Mrs. Daisy Sebelins				Logan Philling
Verla Pearl Smith	•	•	•	Thomas Oldahama
Kata Viola Varhranch	•	•	•	Mantas, Oktoromo.
Devolis Van-11	•	•	•	mannattan, kiley.
Minnie Emma Reich, Eva Sandborn, Margaret Scott, Mrs. Daisy Sebelins, Verla Pearl Smith, Kate Viola Yarbrough, Byrdie Yoxall,	•	•	•	Sharon Springs, Wallace.

DOMESTIC SCIENCE SHORT COURSE—SUMMER TERM.

E. Estella Barnes, Cecil Pearl Barnett, .						Wichita, Sedgwick.
Mos Pisdoner Posses	•	•	•	•		
Mae Riederer Besore, .						7.6
(Mrs.) Pearl Thompson	bri	ntn	aıı,	•	•	Manhattan, Riley.
Nannie Carnanan, .	٠	•	•	•	•	Stockdale, Riley.
Florence Carpenter, .	٠	٠	•	•	•	Woodsdale, Stevens.
Edna E. Cockrell,	•	•	•	•	•	Oswego, Labette.
S. Cecilia Dellellottz, .	•	•	•	•	•	Kansas City, Missouri.
Mannie Carnahan, Florence Carpenter, Edna E. Cockrell, S. Cecilia DeNellottz, Fanny M. Dilsaver, Bertha L. Donaldson, Olive B. Dunlap, Leila Dunton, Kathryn Duttlinger.	٠	٠	•	•	•	Athol, Smith.
Bertha L. Donaldson, .	•	٠	•	•	٠	Manhattan, Riley.
Olive B. Dunlap,	•	٠	•	•	•	Leonardville, Riley.
Lella Dunton,	•	•	•	•	•	Lebanon, Smith.
Kathryn Duttlinger, .	•	•	•			Monument, Logan.
Mabel White Epling, .			•		•	Manhattan, Riley.
Esther E. Ericson,		•		•		Manhattan, Riley.
Marie Fenton,						Neenah, Wisconsin.
Lulu Ferrell,		•		•		Peru, Chautaugua.
Josephine Finley,	•		•			Manhattan, Riley.
Ellan Pearl Frank, .			•			Manhattan, Riley.
Ida E. Grippen,			•	•		Council Grove, Morris.
Nellie Isabelle Hale, .						Lebanon, Smith.
Edith A. Harder,						Minneapolis, Ottawa.
Vera E. Holloway, .						Yates Center, Woodson.
Actea Kennedy,						Topeka, Shawnee.
Ada Kennedy,						Topeka, Shawnee.
Amanda C. Kittell,			. '			McPherson, McPherson.
(Mrs.) Hattie S. Loomis	,					Manhattan, Riley.
Stella E. McClure, .						Athol, Smith.
Irma L. Moore,						Holton, Jackson.
Grace Morris,						Kansas City, Wyandotte.
Myrtle Oskins						Manhattan, Riley.
Beulah E. Pennell.					Ī	Junction City, Geary.
(Mrs.) Emma Pontius.		-			•	Fairview, Brown.
Lulu Moore Porter.				•	•	Holton, Jackson.
Leaffa Laura Randall.		•	•	•	•	Manhattan, Riley.
Clive B. Dunlap, Leila Dunton, Kathryn Duttlinger, Mabel White Epling, Esther E. Ericson, Marie Fenton, Lulu Ferrell, Josephine Finley, Ellan Pearl Frank, Ida E. Grippen, Nellie Isabelle Hale, Edith A. Harder, Vera E. Holloway, Actea Kennedy, Ada Kennedy, Amanda C. Kittell, (Mrs.) Hattie S. Loomis Stella E. McClure, Irma L. Moore, Grace Morris, Myrtle Oskins, Beulah E. Pennell, (Mrs.) Emma Pontius, Lulu Moore Porter, Leaffa Laura Randall, Edith Mildred Records, Genevieve Louise Riddle,		-	•	•	•	Manhattan, Riley.
Genevieve Louise Riddle		•	•	•	•	Minneapolis, Ottawa.
in a series of the series of t	•	•	•	•	•	minicapons, Ollawa.

Bertha Ruble,						Caney, Montgomery.
Lynnie Sandborn,	•					T
						01-1- (711
Minnie Schorer,					•	
Kathleen Selby,				•	•	Manhattan, Riley.
Esther Mette Sieder, .						Enterprise, Dickinson.
Myrtle Simpson,						Talmage, Dickinson.
Lois A. Sitterley,						Manhattan, Riley.
Alice Skinner,						Topeka, Snawnee.
Oliva Marguerite Smith.						waverly, Coney.
Alberta Smutz.						Linn, Washington.
Inlia Madge Stone.	_					hays, Ellis.
Cartruda May Stader						mannattan, Kney.
Nellie L. Thompson,	Ĭ.					mannatian, Kney.
Olga Frances Unruh,	•	•				Larned, Pawnee.
Olga Frances Unitum,	•	•	•	•	•	Athal Smith
Irene Walker,	•	•	•	•	•	D lane (Derman)
Alberta Wenkheimer,			•		•	Belpre, (Fawnee).
Chloe May Willis,	•		•			mannatian, Kney.
Frances Odell Wilson,	٠		•	٠	•	Ingalls, Gray.



Shops.

SUMMARY.

CLASSES.	Men.	Women.	Total.
Graduate Senior Junior Sophomore Freshmen Subfreshmen Preparatory Special	107 166 272 332 379 110 21	16 64 77 109 159 142 24 21	28 171 243 381 491 521 134 42 18
Dairy Farmers' Short Course Domestic Science Short Course Counted twice	197	168 36	18 197 168 86
Totals	1,563	743	2.308

From 102 counties of Kansas, 2276. From 10 other states, 25; Philippine Islands, 7.

RECORD OF ATTENDANCE.

1879-1909.

		: . ·					ro l		70		70	I		63	10
	Domestic	Farmers'	Dairy	Apprentice	Special	Preparatory	Subfreshman.	Freshman	Sophomore.	Junior	Senior	Postgraduate	Counted	Total.	Graduated
	omestic scienshort course.	armers	F:	펄	8	9	E.	89	5	<u>p</u> .	¥.	3,48	3	<u> </u>	a.
	H 28	178	٧.	<u>6</u>	<u> </u>	14	7	8	음	¥	Ħ	3	te	:	2
COLLEGE	6 Z	6 2	:	1 5		#		\$0.	ō			5			8
		: 7a	:	<u> </u>	/ i	2	3	D	7			25	3		۵
YEAR.	5 G.	: 5	;		:		1 M2	•			:	2	twice	:	1 :
	œ g	short	:					•		•		1 :	9	1	1:
	science urse		:					:	:	:	:	1:	:	:	:
	: 0	<u>:</u>	<u></u>		<u>:</u>				<u></u>		·	<u> </u>	<u>-</u> -		
1878-79					1			89	89	16	12			207	9
1879-80			1111		1			166	61	35	11	2 2		276	7
1880-81					6			178	48	24	9	2		267	8:
1881-82					5			227	50	19	11			312	9
1882-83					4			241	60	30	12			347	12
1883-84					2			255	92	26	18	5		395	17
1884-85					2			271	71	36	16	5		401	14
1885-86					1			273	91	35	24	4	• • • •	428	21
1886-87								303	100	44	24	10		481	21
1887-88								305	92	45	27	2		472	22
1888-89			• • • •					266	103	41	28	7		445	25
1889-90					1			307	105	63	28	10	••••	514 593	27
1890-91						•••••	• • • • • • •	343	135 139	50	53	12			52 35
1891-92					• • • •		•••••	336	110	62 56	37 43	29		584 587	39
1892-93						••••	•••••	339 275	141	72	42	25		555	39
1893- 9 4			ļ • • • •				•••••	276	108	89	64	30		572	57
1894-95				• • • • •	5			353	121	67	71	32		647	66
1895-96	• • • • • •			• • • • •	6	67		321	168	69	62	46		734	55
1896-97	• • • • • •	• • • • • •	6	9	15	77		316	174	77	82	57	10	803	69
1897-98	• • • • • •	• • • • • •	26	35	40	110		306	177	92	65	40	21	870	53
1898-99	24	47	57	50	32	162		376	163	109	69	27	22	1094	58
1900-01	47	109	72	79	23	318		348	183	80	74	40	52	1321	60
	41	125	66	87	19	298		396	206	120	65	32	59	1396	52
1901-02	63	128	38	78	36	342		471	229	141	86	24	57	1574	55
	51	122	16	72	33	443		403	206	161	114	20	36	1605	102
1903-04	88	99	24	12	30	500		289	198	122	117	26	43	1462	107
	92	118	28		46	598	I	373	214	145	110	30	64	1690	96
1905-06	134	179	23		48	144	511	411	269	149	133	24	88	1937	118
1907-08	188	173	26		42	134	528	450	357	202	148	26	82	2192	116
1908-09	168	197	18		42	134	521	491	381	243	171	28	86	2308	1

GRADUATES.

This list is made from the best data obtainable. A favor will be conferred by notifying the College Secretary of any errors or changes.

1867.

Henry L. Denison, A. M., 55 West Alameda avenue, Denver, Coio. Stenographer.
Beile M. (Haines) Pond, A. M. Died in 1905.
Emma Laura (Haines) Bowen, A. M., 1401 Hnmboldt street, Manhattan, Kan. At home.
John J. Points, A. M., 2201 Douglas street, Omaha, Neb. Attorney at law.
Martha A. (White) Abbott, A. M., 288 Oakiey boulevard, Chicago, Iii. Housewife.

1871.

Emily M. (Campbell) Robinson, A. B. Died in 1877.

Eilen Frances (Denison) Whedon, A. B., 1845 D street, Lincoin, Neb. Housewife.

Luella M. Houston, A. B., 1216 South Tenth street, Denver, Coio. Music teacher.

Charles O. Whedon, B. S., 1845 D street, Lincoin, Neb. Attorney at iaw.

Kate E. (White) Turiey, A. B., 973 Jackson boulevard, Chicago, ili. Housewife.

1872.

Theophania M. (Haines) Huntington, A. B. Died in 1880.

Albert Todd, A. M., Fort Totten, N. Y. Coionei, coast artifiery corps, United States army.

Samuel Wendeil Williston, A. M., M. D., Ph. D., Waiker Museum, University of Chicago, Chicago, Ill. Professor of paleontology.

1873.

Eliza Z. (Davis) Stringfield, A.B., 1111 Santee street, Los Angeles, Cai. Housewife. Sam Kimble, A.B., Manhattan, Kan. Judge twenty-first district.

T874.

Harry A. Brous, A. M., M. D. Died in 1906. Edgar F. Ciark, A. B. John E. Davis, B. S., D. D. S. Died in 1908. William D. Gilbert, A. B. Government inspector of rural mail routes. A. Judson White, A. B., 288 Oakley boulevard, Chicago, Ili. Minister.

1875.

Reuben E. Lofinck, B. S., Manhattan, Kan. Merchant.

Alice Eulaile (Stewart) Points, A. M., 340 Communipaw avenue, Jersey City, N. J.

Teacher city schools.

1876.

George A. Gale, A. B., box 395, West Paim Beach, Fla. Poultry- and fruit-raiser. Elia M. (Gale) Kedzie, A. B., Agricultural College, East Lansing, Mich. Art stndio. Carrie M. Kimbali, A. B., Orange avenue, Garden Grove, Cal. Homekeeper. Neliie (Sawyer) Kedzie-Jones, M. S., Minneapolis, Minn. Housewife. Minerva E. (Whitman) Heiser, A. B., Lyndon, Kan. Housewife.

1877.*

Eiia S. (Chiid) Carroli, Manhattan, Kan. Housewife.
George H. Faliyer, M. S., bureau of soils, Washington, D. C. Scientist in bureau of
soils, United States Department of Agriculture.
John S. Griffing, M. S., Tecumseh, Kan. Dairyman.
Walter Cyrus Howard, B. D., Second avenue, Oakdale, Cal. Minister.
Frederick O. Hoyt, M. D. Died in 1884.
Louis E. Humphrey, 4 Maine street, Towner, Colo. Druggist and real-estate dealer.
James F. La Tourrette, Miles, Wash. Farmer.
Marion Franklin Leasure, LL. B., La Cygne, Kan. Attorney at law.
William Uirich, M. S., Chautauqua, Iii.

^{*} B. S. has been granted all graduates since 1877.

1878.

Albert N. Godfrey, M. S., box 272, Port Townsend, Wash. Civil engineer. County Albert N. Godfrey, M. S., Box 212, Fort Townsend, Wash. Civil Engineer.
Charles S. McConneil. Died in 1902.
George S. Platt. Died in 1878.
Amos E. Wilson, 212 Eim street, Leavenworth, Kan. Cashier First National Bank.

1879.

Arthur T. Blain, Duarte, Cai. Fruit-grower.

Etta (Campbell) Blain. Duarte, Cal. Housewife.

Wilmer K. Eckman, 305 South Fredonia street, Longview, Tex.
Corwin J. Reed, R. F. D. No. 1, Havensville, Kan. Farmer.
Harry C. Rushmore, 2028 North Fifth street, Kansas City, Kan.

Traveling salesman for Norveil-Shapleigh Hardware Company, St. Louis, Mo.

Lewis A. Saiter, Carmen, Okla. Editor Carmen Headlight, and lawyer.

Wm. H. Sikes, Leonardville, Kan. Merchant.

Ella (Vincent) McCormick. Clay Center. Kan. Housewife.

Clarence E. Wood, A. B., Bushyhead, Okla. Merchant.

Augustine Reacham. Dicd about 1890.

Lizzie R. (Cox) Kregar, 503 W. First street, Junction City, Kan. Housewife.

Emma (Hoyt) Turner, 524 S. Eddy street, Fort Scott, Kan. Housewife.

Emma (Knostman) Huse, 515 Humboldt street, Manhattan, Kan. Housewife.

Grace (Parker) Perry, Salmon City, Idaho. Housewife.

Noble Asa Richardson, 780 Fifth street, San Bernardino, Cal. Merchant.

Marie E. (Sickels) Davis. Dicd in 1894.

T881.

Flora (Donaidson) Reed, R. F. D. No. 1, Havensville, Kan. Housewife.
Ulysses Grant Houston, Amherst, Mass. Lecturer on Bible lands, archæology and
antiquities.
Fletcher M. Jeffery, 747 New York block, Seattle, Wash. Lawyer.
William J. Jeffery, Died in 1900.
Darwin S. Leach. Died in 1908.
William J. Lightfoot, 615 Leavenworth street, Manhattan, Kan. United States examiner of surveys and special disbursing agent, Department of the Interior.
Dalinda (Mason) Cotey, 5035 Echo street, Los Angeles, Cal.
Wirt S. Myers, Warrington, Fla. Pattern-maker, Gulf Machine Works, Pensacola.

1882.

J. Chester Alien. Died in 1885.
Ida (Cranford) Sloan, 2524 Gould avenue, N. Fort Worth, Tex. Housewife.
Edward V. Cripps.
Warren Knaus, M. S., 512 S. Main street, McPherson, Kan. Editor and proprietor of Democrat.
Mattle E. (Mails) Coons, Manhattan, Kan. Housewife.
Ailie S. (Peckham) Cordry, 1816 Beimont avenue, Parsons, Kan. Housewife.
Belle (Selby) Curtice, 201 West Armour boulevard, Kansas City, Mo. Housewife.
Burton L. Short, 47 N. Valley street, Kansas City, Kan. Assistant postmaster.
John A. Sloan, M. D. V., N. Fort Worth, Tex. United States meat inspector.

James W. Berry, Jewell, Kan. Lumberman.
Mary C. (Bower) Ady, Manhattan, Kan. Housewife.
Lewis W. Call, LL B., LL M., D. C. L., 1448 Newton street, N. W., Washington,
D. C. Chief cierk and solicitor, judge-advocate general's office, United States
War Department.
Emma E. Glossop, 3641 T street, South Omaha, Neb.
William J. Griffing, R. F. D. No. 1, Manhattan, Kan. Farmer and fruit-grower.
Phoeb E. (Haines) McKeen, M. S., 1401 Humboldt street, Manhattan, Kan. Housewife. Hortense L. (Houston) Martin, 501 Nebraska street, Warren avenue, Miami, Okla. Hortense L. (Housewife.

Housewife.

Jacob Lund, M. S., Manhattan, Kan. Superintendent of heat and power department, Kansas State Agricultural College.

Katie I. (Meguire) Sheldon.

J. Dana Needham, Lane, Kan. Merchant.

Milan T. Ward, M. D., Toulon, Ill. Physician.

Julius T. Wiliard, M. S., D. Sc., Manhattan, Kan. Professor of chemistry, Kansas State Agriculturai College.

Emmett S. Andress, Lakin, Kan. Farmer.
Florence J. (Brous) Smalley, 608 Freeman avenue, Kansas City, Kan. Housewife.
Bartholomew Buchli, M. S., D. V. M., R. F. D. No. 4, Alma, Kan. Farmer and stockman; county commissioner.
John H. Calvin, LL. D. Died in 1898.
William A. Corey, 207 New High street, Los Angeles, Cal. Organizer Socialist party and associate editor of Common Sense.
Henry M. Cottrcil, M. S., 821 Petcrson street, Fort Collins, Colo. Superintendent of farmers' institutes and agricultural college extension work.
Carrie F. (Donaldson) Brown. Died in 1902.
Florence A. Donaldson. Died in August, 1888.
Frank W. Dunn, Holtville, Imperial county, California. Vineyardist.
I. Day Gardiner. Died in 1899.
Edwin H. Kern, Coquille, Ore. Civil and mining engineer.
Marion M. Lewis. Died in 1895.
Charles L. Marlatt, M. S., 1440 Massachusetts avenue, N. W., Washington, D. C.
Entomologist in charge of experimental field-work, United States Department of Agriculture.
Lincoln H. Neiswender, R. F. D. No. 6, North Topeka, Kan. Farmer and stock-raiser.
Geo. C. Pcck, West Delaware street, Jewell, Kan. Manager bookstore.
Hattle L. (Peck) Berry, Jewell, Kan. Housewife.
John W. Shartel, Oklahoma City, Okla. Lawyer.

Thomas Bassler. Died in 1907.
Alhert Deitz, 2747 Holly street, Kansas City, Mo. Grocer, meat dealer and fruit farmer.

Geo. E. Hopper, M. S., Manhattan, Kan. Planing-mill; contractor and huilder. Florence F. Hough, Great Bend, Kan. Frank A. Hutto, M. S., Ph. D. Twin Falls, Idaho. Attorney at law.

J. Allen Lewis, M. S., C. E. Died in 1907.
Nellie J. Murphy. Died in 1909.
Arthur L. Noyes, R. F. D. No. 1, Zeandale, Kan. Farmer and stock-raiser.
Clarence D. Pratt, 345 Elm street, Dallas, Tex. Secretary Lincoln Paint and Color Company.
Rollin R. Rees, Minneapolis, Kan. District judge.
Frederick J. Rogers, M. S., 4 Lasuen street, Stanford University, Cal. Associate professor of physics, Leland Stanford Jr. University.
Dorothy E. C. (Secrest) Hungerford, Manhattan, Kan. Housewife.
Grace L. (Woods) Shartel, Oklahoma City, Okla. Housewife.

Lillie Belle Bridgman, M.S., 1715 Boute avenue, Berkeley, Cal. Instructor in physics, California School of Mechanical Arts, San Francisco, Cal.

Louis P. Brous, M.S., 1011 Barnett avenue, Kansas City, Kan. Teacher of mechanical drawing in manual-training high school, Kansas City, Mo.

Paul Halstead Fairchild, M.D., 87 Boulevard, Passaic, N. J. Real estate.

Abbott M. Green, Alturas, Cal. Surveyor and civil engineer.

James G. Harbord, M. S., Manila, P. I. Colonel United States army, assistant chief Philippines constabulary, commanding district of central Luzon.

John U. Higinhotham, Washington boulevard and Morgan street, Chicago, Ill. Assistant treasurer of National Biscuit Company.

Maria C. (1lopper) Getty, Downs, Kan. Housewife.

E. Ada (Little) MacEwan, 314 Elm street, Kalamazoo, Mich. Housewife.

Frank L. Parker, Hutehinson, Kan. Stock-raiser and fruit-grower.

Edward H. Perry, Plainview, Tex. Real-estate broker, farmer and land speculator.

H. Angustus Platt. Died in 1903.

Ada H. (Quinby) Gardiner, 1514 Laguna street, Santa Barbara, Cal. Housewife.

Ida H. (Quinby) Gardiner, 1514 Laguna street, Santa Barbara, Cal. Housewife.

Minnie Reed, M. S., Kamehameha manual school, Honolulu, T. H. Teaching science in manual-training school for boys; conducting botanical research work for United States experiment station.

David G. Rohertson, 153 La Salle street, Chicago, Ill. Lawyer.

Edward O. Sisson, A. B., Ph. D., 1833 Ravenna boulevard, Scattle, Wash. Professor of education, University of Washington.

John W. Van Deventer, 2022 Stout street, Denver, Colo. Chief printing clerk, house of representatives.

George W. Waters. Died in 1908.

William E. Whaley, 117 Maroon Heights, Chicago, Ill. Instructor, University of Chicago.

F. Henrietta (Willard) Calvin, 488 Littleton street, La Fayette, Ind. Professor of household economics, Purdue University.

John L. Wise, Greenville, Ill. Dealer in hay and live stock.

1887.

Edgar A. Allen, U. S. Indian office, Washington, D. C. Special United States Indian agent.

Fred H. Avery. Died in 1896.
Claude M. Breese, M. S., 318 Leavenworth street, Manhattan, Kan. Assistant cashier, First National Bank.

John B. Brown, M. S., Fort Shaw, Mont. Superintendent United States Indian training-school.

Waiter J. G. Burtis, R. F. D. No. 2, Fredonia, Kan. Farmer and stock-breeder.

Mark A. Carleton, M. S., 1846 Newton street, Washington, D. C. Cerealist in charge of grain investigations, bureau of plant industry, United States Department of Agriculture.

Nellie E. (Cottrell) Stiles, R. F. D. No. 2, Fullerton, Cal. Housewife.

Bert R. Elliott, Dawson City, British Yukon Territory. Miner.

Frederick B. Elliott, 219 Poyntz avenue, Manhattan, Kan. Real estate and insurance agent.

Clara M. (Keyes) Graham, box 250, 94 Colorado street, Manila, P. I. Teacher of zoflogy in Philippine Normal School.

Fred G. Kimball, Innoko, Alaska. Miner.

William J. McLaughlin, 463 W. Sixth South street, Salt Lake City, Utah. License clerk in city recorder's office and assistant clerk to city council.

Frederick A. Marlatt, Manhattan, Kan. Proprietor Blue Valley Manufacturing Company.

Mary E. Moses. Died in 1906. Edgar A. Allen, U. S. Indian office, Washington, D. C. Special United States Indian Company.

Mary E. Moses. Died in 1906.

Charles A. Murphy, Nickerson, Kan. Teacher of mathematics, Reno county high Charles A. Murphy, Nickerson, Kan. Teacher of mathematics, Reno county high school.

Orlando G. Palmer, LL. M., Fort Riley, Kan. Second lieutenant, Seventh United States cavalry.

Louis B. Parker. Died in 1889.

James E. Payne, M. S., Akron, Colo. Superintendent U. S. Experiment Station. Seward N. Peck, 1030 Railway Exchange building, Chicago, Ill. Chief draftsman for A. T. & S. F. railway system.

George N. Thompson, Belmond, Iowa. Manufacturer of incubators and special furniture.

Willis M. Wright, Welsh, La. Rice farmer.

ISSS.

Grant Arnold, 4313 Fourth avenue, N. E., Seattle, Wash. Manager of hardware department, Z. C. Miles & Piper Company.

Bertha H. (Bacheller) Foster, M. S., Maplehill, Kan. Housewife.

Clement G. Clark, A. B., B. T., 307 Fifth avenue, S. E., Minneapolis, Minn. Pastor of First Congregational church.

Alexander C. Cobb, Wagoner, Okla. Farmer, member Oklahoma State Board of Agriculture.

Mattie (Cobb) Clark, 307 Fifth avenue, S. E., Minneapolis, Minn. Housewife.

Minnie H. Cowell, Steyning, Sussex, England. Certificated nurse.

Lyman H. Dixon, 11 East Twenty-fourth street, New York city. Architect; manager for E. A. Platt.

David G. Fairchild, M. S., 1331 Connecticut avenue, Washington, D. C. Agricultural explorer, in charge foreign seed and plant introduction, Bureau of Plant Industry, United States Department of Agriculture.

Carl E. Friend, 1046 Massachusetts street, Lawrence, Kan. Lumber dealer.

John R. Harrison, Post-office Department building, Washington, D. C. Post-office inspector in charge Washington division post-office inspectors.

Humphrey William Jones, 1251 Lincoln street, Topeka, Kan. Principal of Branner school.

Nether B. Lawis 1002 High street, Voungstown, Ohio. Mechanical engineer. Humphrey William Jones, 1201 Lincoln street, Topeka, Kan. Frincipal of Branner school.

Nathan E. Lewis, 1003 High street, Youngstown, Ohio. Mechanical engineer.

Abby L. Marlatt, M. S., technical high school, Providence, R. I. Teacher of household economics.

William C. Moore, lock box 357, Parsons, Kan. Breeder of registered Jersey cattle. Ernest F. Nichols, M. S., D. Sc., 400 W. 118th street, New York, N. Y. Professor of experimental physics in Columbia University; research associate of the Carnegie Institution of Washington.

Harry E. Robb, Eureka, Kan. Farmer and county surveyor.

Anna Snyder, Lebo, Kan. Telephone exchange.

Edwin H. Snyder, 2825 Wyandotte street, Denver, Colo. Editor and publisher.

Oliver L. Utter, A. B., A. M., S. T. B., 121 South Yellow Springs street, Springfield, Ohio. Pastor St. Paul M. E. church.

Aaron Walters. Died in 1892.

Lora L. (Waters) Beeler, M. S., Glen Ellyn, Ill. Housewife.

Daniel Webster Working, A. M., Morgantown, W. Va. Superintendent agricultural extension work, West Virginia University College of Agriculture.

Emma A. Allen. Died in 1891.

Joseph W. Bayles, A. B., Clay Center, Kan. Minister.

Walter R. Browning, Padonia, Kan. Grain dealer.

David E. Bundy, box 176, Farmington, N. M. Missionary to Navajo Indians.

Samuel S. Cobb, Wagoner, Okla. Postmaster and publisher.

Judson H. Criswell, Ames, Iowa. Assistant, farm crops department, Iowa State College.

Mattle I. (Farley) Carr, R. F. D. No. 1, Kent, Wash. Housewife.

Clarence Everett Freeman, M.S., E.E., 7026 South Park avenue, Chicago, Ill
Hydro-electric engineer with the Arnold Company, 181 La Salle street, Chicago. Chicago.

Hattle L. (Gale) Sanders, Manhattan, Kan. Housewife.

John S. Hazen, 815 Boonville street, Springfield, Mo. Local forecaster, in charge weather bureau office.

Albert B. Kimball, 116 East Kansas avenue, Belleville, Kan. Publisher Belleville Freeman.

William Knabb, 301 N. Second street, Hiawatha, Kan. Vice-president First National Bank. William Knabb, 301 N. Second street, Hiawatha, Kan. Vice-president First National Bank.
Mary Cornelia Lee, Manhattan, Kan. Librarian, Carnegie library.
Alonzo A. Mills, Anaheim, Cal. Nurseryman and real-estate dealer.
Susan W. (Nichols) Eshelman, 926 Felix street, St. Joseph, Mo. Housewife.
Walter H. Olin, M. S., 829 Peterson street, Fort Collins, Colo. Industrial commissioner Northwestern Land and Iron Co., also for Denver, Laramie & N. W. R. R.
Eli M. Paddleford, A. B., S. T. B., Lenexa, Kan. Minister.
Maude F. (Sayers) DeLand, Women's Medical College, Philadelphia, Pa. Medical student.
Florine (Secrest) Linderman, Canay Volo county California, Housewife student.
Florine (Secrest) Linderman, Capay, Yolo county, California. Housewife.
Stanley Snyder, Oskaloosa, Kan. Farmer.
Charles W. Thompson, D. D. S., 415 Wisconsin avenue, Holton, Kan. Dentist.
Jane Chapin Tunnell, 5714 Washington avenue, Chicago, Ill. Instructor in English,
Hyde Park high school.
Ina M. (Turner) Bruce, 3857a Juniata street, St. Louis, Mo. Housewife.
Robert U. Waldraven, Farmington, N. M. Minister.
Henry S. Willard, Manhattan, Kan. Druggist. 1890.

Is90.

Samuel I. Borton, 507 South Fourth street, Lamar, Colo. Chief agriculturist, American Beet Sugar Company.

Frank A. Campbell, B. A., 528 Kansas avenue, Topeka, Kan. Proprietor Central Hotel.

Arthur Fulton Cranston, Ll. B., Central avenue, Parsons, Kan. Attorney at law. John Davis, Edmond, Okla. Professor of chemistry and physics, Central State Normal School.

Grant W. Dewey, 423 East Forty-seventh street, Chicago, Ill. Photographer. Charles J. Dobbs, 1062-3-4 Empire building, Seattle, Wash. Attorney at law. Schuyler C. Harner, Keats, Kan. Merchant and postmaster. John W. Ijams, Grantville, Kan. Farmer.

Bertha S. (Kimbel) Curtis, 841 Garfield avenue, Kansas City, Kan. Housewife. Eusebia (Knipe) Curtis, 841 Garfield avenue, Kansas City, Kan. Housewife. Nellie P. (Little) Dobbs, 1062-3-4 Empire building, Seattle, Wash. Housewife. Ellsworth Thomas Martin, Ll. B., 1402-100 Washington street, Chicago, Ill. Lawyer. Silas C. Mason, M. S., 5035 Echo street, Los Angeles, Cal. Arboriculturist, bureau of plant industry, United States Department of Agriculture.

Wilton L. Morse, Mancos, Colo. Contractor and builder.

Albert E. Newman, Texas City, Tex. Custom-house official.

Julia R. Pearce, Washington, D. C. Scientist, physical laboratory, bureau of plant industry, United States Department of Agriculture.

Emil C. Pfuetze, Manhattan, Kan. Lumber dealer.

William H. Sanders, care of Florida Coast Line Canal Company, Pablo Beach, Fla. Foreman in charge of dredges and construction of Pablo division Florida Coast Line Canal and Transportation Company.

Emma Secrest, A. M. Died in 1898.

Marie Barbara (Senn) Heath, M. S., 6027 Roxbury street, Seattle, Wash. Housewife. Ralph Snyder, Oskaloosa, Kan. Banker and farmer.

George E. Stoker, A. B., Columbian building, Topeka, Kan. Lawyer.

Walter T. Swingle, M. S., Department of Agriculture, Washington, D. C. Physiologist in charge plant life-history investigations, bureau of plant industry, United States Department of Agriculture.

Gilbert J. VanZile. Died in 1890.

1891.

William Aaron Anderson, 4218 W. Prospect Place, Kansas City, Mo. Secretary W. E. Thomas Lumber Company, 617 R. A. Long building. William Sherman Arbuthnot, D. V. S., Lebanon, Kan. Druggist. Herman William Avery, R. F. D. No. 2, Wakefield, Kan. Farmer and stockman; state senator. Judd Noble Bridgman, M. S., A. B., La Plata, Mo. Assistant engineer A. T. & S. F. railway. Robert James Brock, Manhattan, Kan. Lawyer.

Francis Charles Burtis, M. S. Died in 1908.
Charles Albert Campbell, D. D., Third and Ludlow streets, Dayton, Ohio. Presbyterian clergyman.
Spencer Norman Chaffee, M. D., Talmage, Kan. Physician and surgeon.
Clay Ephraim Coburn, M. D., 908 Orville avenue, Kansas City, Kan. Physician.
Gertrude (Coburn) Jessup, 426 Topeka avenue, Topeka, Kan. Housewife.
Tina Louise (Coburn) Tomson, 111 North Sixteenth street, Cedar Rapids, Iowa.
Housewife.
Rachel Callie (Conweil) Thoburn, 906 West Twenty-first street, Oklahoma City,
Okia. Housewife.
Christine Mossman Corlett, R. F. D. No. 2, box 47A, Guthrie, Okla. Teacher.
Mary Emmeline (Cottrell) Payne, M. S., Akron, Colo. Housewife.
Phil Sheridan Creager. Died in 1906.
Kary Cadmus Davis, M. S., Ph. D., New Brunswick, N. J. Principal short courses in agriculture, New Jersey College of Agriculture; professor of agronomy and soils, Rutger's College.
Thomas Clarke Davis, Benedict, Kan. Farmer and oil producer.
Helen Pearl (Dow) Peck, 309 Mariborough road, Brooklyn, N. Y. Housewife.
Harry Benson Gilstrap, 322 West Eighth street, Chandler, Okla. Postmaster.
Almon Arthur Gist, box 82, Newkirk, Okla. Agent A. T. & S. F. railway.
Amy Myrtle (Harrington) Deibier, 117 East Eleventh street, Leadville, Colo. Housewife.
Delpha May (Hoop) Montgomery, Manhattan, Kan. Housewife. Amy Myrtle (Harrington) Deibier, 117 East Eleventh street, Leadville, Colo. Housewife.

Delpha May (Hoop) Montgomery, Manhattan, Kan. Housewife.

Mayme Amelia (Houghton) Brock, Manhattan, Kan. Housewife.

Willis Wesley Hutto, Manhattan, Kan. Teacher in city schools.

George Victor Johnson, Portales, N. M. Editor and proprietor Portales Times.

Frank Mullett Linscott, D. V. S., Farmington, Kan. Farmer.

Bessie Beile Little, M. S., M. D., Manhattan, Kan. Physician.

Albert Edward Martin, B. A. Died in 1906.

Nellie Evangeline (McDonald) Thayer. Died in 1902.

Pavid Collins McDowell, Lyons, Colo. Lyons & Estes Park Stage and Freight Line.

Alfred Midgley, Minneapolis, Kan. Manager lumber-yard.

Madeleine Wade Milner, 522 College avenue, De Kalb, Ill. Librarian Northern Illinois State Normal School.

Paul Chambers Milner, Carbondale, Ill. Farmer.

Harry Elbridge Moore, S15A Union street, Seattle, Wash. Real-estate dealer.

John Otis Morse, Mound City, Kan. Lawyer.

Hattle May Noycs, R. F. D. No. 1, Jeandale, Kan. Housekeeper.

Louise (Reed) Paddleford, Lenexa, Kan. Housewife.

Artemus Jackson Rudy, R. F. D. No. 1, Oleander, Cal. Fruit-grower.

Henry Vernon Rudy, box 826, Fresno, Cal. President Fresno Fruit Growers' Company.

*Charloitte Jane (Short) Houser M. S. [B. S. Dickinson College, Carlisle, Pa.], Lewpany. *Chariotte Jane (Short) Houser, M. S. [B. S., Dickinson College, Carlisle, Pa.], Lew-*Chariotte Jane (Short) Houser, M. S. [B. S., Dickinson College, Carlisle, Pa.], Lewiston, Pa. Housewife.

Benjamin Skinner, M. D., Burr Oak, Kan. Physician and surgeon.

Caroline Scott (Stingley) Van Blarcom. Died in 1899.

Lillian Alice (St. Jobn) Williams, 616 South Tenth street, Kansas City, Kan. Housewife.

Ellis Cheney Thayer, 424 Dearborn avenue, Helena, Mont. Chief draftsman, mineral department, office of United States surveyor-general.

Sam L. Van Blarcom, 115 North Quincy street, Kansas City, Mo. Railway mail clerk. Frank Albert Waugh, M. S., Amberst, Mass. Head of division of horticulture and dean of summer school, Massachusetts Agricultural College.

Fannie Ellzabeth (Waugh) Davis, M. S., New Brunswick, N. J. Housewife.

Flora Emilie Wiest, Manhattan, Kan. Teacher in city schools.

Bertha (Winchip) Spilman, 324 Fifth street, S. E., Washington, D. C. Housewife.

Alfred Orrin Wright, Waurika, Okla. Editor of the Waurika Herald.

Effie Jeanetta Zimmerman, M. S., Moray, Kan. Teacher in Proctor Academy, Provo, Utah.

Grace Maria Clark, M. S. Died in 1904.

'George L. Clothier, M. S., M. F., Agricultural College, Mississippi. Assistant professor of horticulture, in charge of forestry and plant breeding.

Lillian Clyde Criner, McPherson, Kan. Publisher.

Harry A. Darnall, box 45, corner Kennett and Main streets, Lents, Ore. Editor of Beaver State Herald, of Gresham, Ore.

William H. Edelblute, Rathdrum, Idaho. United States deputy mineral surveyor for Idaho.

Elizabeth (Edwards) Hartley, Manhattan, Kan. Housewife.

John Frost, R. F. D. No. 3, Blue Rapids, Kan. Farmer.

John Frost, R. F. D. No. 3, Blue Rapids, Kan. Farmer.

Leffie (Glistrap) Frazier, box 124. Chandler, Okla. Clerk in post-office.

Ava (Hamiil) Tillotson, M. S., Howard, Kan. Pharmacist.

J N Harner. Died in 1897.

Loyall S. Harner, 1118 Hayes avenue, Colorado Springs, Colo. Mili chemist for Golden Cycle Mining and Milling Company.

Golden Cycle Mining and Milling Company.

Charles Pinckney Hartley, M. S., 3420 Center street, N. W., Washington, D. C. Physiologist in charge of corn breeding, United States Department of Agriculture.

John William Abraham Hartley, Manhattan, Kan. Farmer.

James Laird McDowell, McCammon, Idaho. Farmer and market-gardener.

Robert A. McIlvaine, care of Carson Indian Training School, Stewart, Nev. Principal teacher, government Indian training school.

Katherine (Oldham) Sisson, 1546 Neil avenue, Columbus, Ohio. Housewife.
Daniel Henry Otis, M. S., Madison, Wis. Assistant to the dean, college of agriculture, and associate professor of animal nutrition, University of Wisconsin.

Ivan Bryan Parker, M. D., Hill City, Kan. Physician and surgeon; president Graham County State Bank.

Warner S. Pope. Died in 1899.

Burton Homer Pugh, 324 Topeka avenue, Topeka, Kan. Manufacturer of farm implements.

Elias Wilber Reed, M. D., box 645, Holton, Kan. Physician.

Rebert Stirling Reed, Simpson, Kan. Miller.

Fred C. Sears, M. S., Mount Picasant, Amherst, Mass. Professor of pomology, Massachusetts Agricultural College, and pomologist Massachusetts Experiment Station. Massachusetts Agricultural College, and pomologist Massachusetts Experiment Station.

Birdie E. Secrest, D. S., Randolph, Kan. At home.

May Secrest, 1318 Mill street, San Luis Obispo, Cal. Head of domestic science department, California Polytechnic School.

Ruth Tipton (Stokes) Sears, M. S., Mount Pleasant, Amherst, Mass. Housewife. Harry W. Stone, Y. M. C. A. building, Portland, Ore. General secretary, Y. M. C. A. Walter Percival Tucker, Manhattan, Kan. Graduate student, Kansas State Agricultural College.

Mary Alice (Vail) Waugh, Amherst, Mass. Housewife.

Robert Lynn Wallis. Died in 1895.

Ora Rebecca (Wells) Traxler, Emporia, Kan. Teacher.

Daniel F. Wickman, 104 East Sixth street, Topeka, Kan. Real estate.

George Washington Wildin, New Haven House Annex. New Haven, Conn. Mechanical superintendent of the New York, New Haven & Hartford railroad.

Charles Ernest Yeoman. Died in 1902. Edmund Clarence Abbott, 235 Cerrillos road, Santa Fe, N. M. Attorney; district attorney, fifth district, counties of Santa Fe, Taos and Torrance.

Edwin McMaster Stanton Curtis, 941 Catalpa street, St. Louis, Mo. Chief clerk, passenger department, Southern Railway Company.

Corinne Louise (Daly) Burtis, 822 Irving street, Muskogee, Okla. Housewife.

Laura Greeley Day, 1008 Eighth street, Menomonie, Wls. Director of domestic science department, Stout Institute.

Ione (Dewey) Sutherland, 189 East Thirty-sixth street, Chicago, Ill. Student.

Albert Dickens, M. S., Manhattan. Kan. Professor of horticulturc, Kansas State Agricultural College; state forester.

Mary Maude (Gardiner) Obrecht, M. S., 1016 Nevada street, Urbana, Ill. Housewife. 1893. Agricultural College; state forester.

Mary Maude (Gardiner) Obrecht, M. S., 1016 Nevada street, Urbana, Ill. Housewife.

Susie (Hall) Linscott, Farmington, Kan. Housewife.

Mary Frances Eurgoyne Harmon, Hotel Grund, Kansas City, Kan. Teacher of drawling in Kansas City, Kan., high school.

If Frances (Harner) Selvidge, M. S., University of Missouri, Columbia, Mo. Housewife.

Margaretha Elise C. Horn, 320 Vinewood avenue, Detroit, Mich. Teacher of botany in Western high school.

Mac F. Hulett, D. O., 318 Tenth street, Alamagordo, N. M. Osteopathic physician. Marcia Ione Hulett, D. O., 318 Tenth street, Alamagordo, N. M. Osteopathic physician. Fred Hulse, 730 Moro street, Manhattan, Kan. Contractor and builder.

Charles Augustus Kimball, Manhattan, Kan. Editor.

Maud Ethel (Knickerbocker) Pyles, 1145 Village Deep, Johannesburg, South Africa. Housewife.

Thomas Eddy Lyon, LL. B., 856 South England avenuc, Springfield, Ill. Lawyer; member state legislature.

William Otis Lyon. Died in 1907.

McLeod Wilson McCrea, 523 East Third street, Santa Ana, Cal. Clerk.

Rose Edith McDowell, 1008 Eighth street, Menomonie, Wls. Senior student, Teachers' Training School, Stout Institute.

George Lane Melton, Ph. B., 500 North Lake avenue, Pasadena, Cal. Business man. Eusebia Delong (Mudge) Thompson, 3231 East Ninth street, Kansas City, Mo. Athone.

Nora (Newell) Hatch, R. F. D. No. 2, Manhattan, Kan. Housewife.

August Fred Niemoller, Wakefield, Kan. Miller.

Susie Amanda Noyes. Died in 1894.

Henry Leamer Pellett, D. O., R. F. D. No. 4, Eudora, Kan. Breeder Red Polled cattle and general farmer.

Charles John Peterson, Topeka, Kan.

Carl Frederic Pfuetze, Manhattan, Kan. Lumber merchant.

John Dewitt Riddell, M, D., Enterprise, Kan. Physician and surgeon.

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John Dewitt Riddell, M, D., Enterprise, Kan. Physician and Surgeon.

William Elmer Smith, Independence, Mo. Lawyer, and clerk of circuit co

Jackson county.

John Eugene Thackrey, S. T. B., 7401 Flora avenue, Mapkwood, Mo. Minister. Joseph B. Thobur 906 West Twenty-first street, Oklahoma City, Okla. Editor and publisher of an agricultural newspaper. Charles Henry Thompson. M. S., Missouri Botanical Garden, St. Louis, Mo. Botanist, Missouri Botanical Garden. George K. Thompson. Died in 1905. William James Yeoman, Pretty Prairie, Kau. Farmer and stock-raiser.

1894.

Frank Weber Ames, room 316, Carnegie building, Pittsburg, Pa. Contract Cork, rall department, Carnegie Steel Company.
Clara Francella Castle, M. S., Manhattan, Kan. At home.
George Luther Christensen, 115 Clark street, Honghton, Mich. Assistant professor in mechanical engineering, Michigan College of Mines.
John Cornelius Christensen, Leonardville, Kan. Cashier, Farmers' and Merchants' State Bank.
Lorena Estella Clemons, Manhattan, Kan. Secretary Kansas State Agricultural College.
Martha Amelia Cottrell, Wabaunsee, Kan. At home.
Sarah Besher (Cottrell) Wright, Welsh, La. Housewife.
Alverta May Cress, R. F. D. No. 7, Topeka, Kan. Teacher.
Fannle Jane Cress, 219 Wilscomsh avenue, Oak Park, Ill. Teacher.
Ernest A. Donaven, M. D., Mount Hope, Kan. Physician.
Jephthah W. Evans, M. D., King Hill, Idaho. Physician.
Jephthah W. Evans, M. D., King Hill, Idaho. Physician.
Jephthah W. Evans, M. D., King Hill, Idaho. Physician.
Jeanelle Russell (Frisbie) Criswell, Ames, Iowa. Housewife.
Eugene Leonard Frowe. Died in 1898.
Walter Harling. Died in 1903.
Lorena Marguerite (Helder) Morse, 485 K. C. road, Olathe, Kan. Housewife.
Mark V. Hester, Paete, Laguna, P. I. Supervising teacher, bureau of education, Philippine civil service.
Charles Ross Hutchings, Apartado 132, San Luls Potosi, Mexico. Civil and mechanical engineer.

Jeane Janes, Jr., box 451, San Bernardino, Cal. Fruit-grower.
Stella Victoria (Kimball) Tucker, Manhattan, Kan. Housewife.
William Henry Moore, Manhattan, Kan. Florist and horticulturist.
William Henry Moore, Manhattan, Kan. Florist and horticulturist.
William Henry Moore, Manhattan, Kan. Fortist and horticulturist.
James Francis Odle, R. F. D. No. 4, Wamego, Kan. Farmer.
Horace Greeley Fope, LL B., 8310 E. Tenth street, Kansas City, Mo. Attorney at Horace Greeley Fope, LL B., 8310 E. Tenth street, Kansas City, Mo. Housewife.
Minnle Louise Romick, 567 N. Gordon street, Fomona, Cal. Teacher.
Minnle Lorise Romick) Chandler, R. F. D. No. 3, Swope Park, Kansas City, Mo. Housewife. Standard States immigration se

Edward Jones Abell, R. F. D. No. 1, Riley, Kan. Farmer and stock-raiser, Cedar Row Farm.

Carl D. Adams, 462 East Santa Fe street, Olathe, Kan. Head teacher, Kansas School for Deaf.

Robert John Barnett, Manhattan, Kan. Principal of preparatory department, Kansas State Agricultural College.

Burton Wesley Conrad, D. V. S., Sabetha, Kan. Veterinarlan.

Florence Ruth Corbett, M. S., department public charlities, foot of East Twenty-sixth street, New York city. Departmental dictitian, department of public charltles; lecturer, Teachers' College, Columbla University.

Sid Henry Creager, box 582, Cincinnati, Ohio. Lumberman.

Elsie Emeline (Crump) Ames, 1316 North Fifteenth street, Bolse, Idaho. Housewife.

David Thomas Davles, Manhattan, Kan. Farmer.

Frank Andrew Dawley, Waldo, Kan. Farmer and stock-raiser.

Daisy Day, M. S., Onaga, Kan. At home.

Flora (Day) Barnett, M. S., Manhattan, Kan. Honsewife.

```
George Adam Dean, M. S., Manhattan, Kan. Assistant in entomology, Kansas State Agricultural College.

Lille Christena (Dlal) Falin, Cleburne, Kan. Housewife.

Lucy Ellis, 705 Lane street, Topeka, Kan. Teacher of manual training.

Victor Emrick, 1034 E. Main street, Portland, Ore. Clerk, ticket auditor's office, Oregon Rallway and Navigation Company.

George Forsyth, 201 S. Main street, Franklin, Ind. Traveling salesman, Dwiggins Wire Fence Company, Anderson, Ind.

Ernest Harrison Freeman, E. E., 7026 South Park avenue, Chicago, Ill. Professor of electrical engineering, Armour Institute of Technology.

Florence Eleanor (Fryhofer) Webster, Manhattan, Kan. Housewife.

George William Fryhofer, 4428 Forest Park boulevard, St. Louis, Mo. Broker.

Oscar Hugo Halstead, M. S., 1014 Houston street, Manhattan, Kan. Secretary E. L. Knostman Clothing Company.

Hortensia (Harman) Patten, 207 N. Harvey avenue, Oak Park, Ill. Housewife.

John Bright Harman, Wigwam, Colo. Stockman.

Clarence V. Holsinger, R. F. D. No. 5, Rosedale station, Kansas City, Kan. Fruit-

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John Bright Harman, Wigwam, Colo. Stockman.
Clarence V. Holshger, R. F. D. No. 5, Rosedale station, Kansas City, Kan. Fruit-
grower.
Christian Andrick Johnson, Success, Kan. Farmer and stock-raiser.
John James Johnson, M. D., Cold Springs, Okla. Physician.
Fred Ralph Jolly, Roswell, N. M. Real estate.
William Irving Joss, M. D., Hereford, Tex. Physician and farmer.
Maud Estella (Kennett) Darnall, box 45, Corner Kennett and Maln streets, Lents,
Ore. Teacher in Portiand city schools.
Myron Arthur Limbocker, Pomona, Kan. Banker.
Samuel Alexander McDowell, care Colorado Trading and Transfer Company, Victor,
Colo. Miner.
Laura Sarah (McKeen) Smith, Russell, Kan. Housewife.
Theo. Wattles Morse, M. S., 485 K. C. road, Olathe, Kan. Publisher of agricultural
paper, Kansas City, Mo.
Oscar Albert Otten, Hebron, Neb. Agent C. R. I. & P. Rly. Co.
William Hackworth Painter. Died in 1901.
Charles Wesley Pape, M. S. Died in 1909.
Ethel (Patten) Ames, 616 Hale street, Pittsburg, Pa. Housewife.
John Vernon Patten, 207 N. Harvey avenue, Oak Park, Ill. Secretary and treasurer
of Charles Smith Company.
William H. Phlpps, S. E. cor. Twelfth and Central streets, Kansas City, Mo. Man-
ager Iowa Dairy Separator Company.
Alice Julia (Quintard) Peck. Died in 1899.
Frederick Ellsworth Rader, Etiwanda, Cal. Fruit-grower.
Ralph Waldo Rader, 1229 Polk street, Topeka, Kan. City bookkeeper for Crosby
Brothers Mercantile Company.
Ada Rice, Manhattan, Kan. Instructor in English, Kansas State Agricultural Col-
lege.
Benjamin Franklin Slmeon Royer, M. D., 203 N. Maln. street, Los Angeles, Cal.
            Ada Rice, Manhattan, Kan. Instructor in English, Kansas State Agricultural Corlege.

Benjamin Franklin Slmeon Royer, M.D., 203 N. Maln. street, Los Angeles, Cal. Physician and optician.

Charles Baxter Selby, Marshfield, Ore. Attorney.

Mabel Gertrude (Selby) Laughlin, La Colorado, Sonora, Mexico. Housewife.

Ernest P. Smith, R. F. D. No. 1, box 74, Gresham, Ore. Farmer.

Frederick John Smith, Russell, Kan. County clerk.

Kitty Myrtle (Smith) Wheeler, Manhattan, Kan. Housewife.

Marletta (Smith) Reed, box 645, Holton, Kan. Housewife.

Marletta (Smith) Reed, box 645, Holton, Kan. Housewife.

Villlam Henry Steuart, Winchester, Kan. Farmer.

Cora Idella (Stump) Chaffee, Lasita, Kan. Housewife.

Dora (Thompson) Winter, 2303 Wabash avenue, Kansas City, Mo. Housewife.

Elven Creveling Trembly, R. F. D. No. 5, Council Grove, Kan. Farmer and stockralser.
            raiser.

George Carpenter Wheeler, Manhattan, Kan. Assistant in animal husbandry, Kansas State Agricultural College.

Mary Elizabeth (Willard) Emrick, 1034 E. Main street, Portland, Ore. Housewife. Olive Mabel (Wilson) Holsinger, R. F. D. No. 5, Rosedale station, Kansas City, Kan. Housewife.

Ora Gertrude Yenawine, 1044 Cleveland avenue, Kansas City, Kan. Instructor in domestic science, Kansas City, Kan., high school.
```

May Haines (Bowen) Schoonover, A. B., 420 Seventh street, Marietta, Ohio. Housewife.
Con Morrison Buck, M. S., 615 Poyntz avenue, Manhattan, Kan. Civil engineer.
Margaret Isaphene (Carleton) Doane, Albert Lea, Minn. Housewife.
Margaret Isaphene (Carleton) Enter Douglass, Utah. Captain, Sixth United States infantry.
William Annesley Cavenaugh, Fort Douglass, Utah. Captain, Sixth United States infantry.
William Arthur Coe, Blackfoot, Idaho. Farmer.
Charlotte Mabel (Cotton) Smith, R. F. D. No. 1, box 74, Gresham, Ore. Housewife.
Ernest Brown Coulson, Huntington, Ore. Civil engineer, Oregon Short Line Railroad.
George Henry Dial, Irving, Kan. At home.
Charles Francis Doane, M. S., Albert Lea, Minn. Assistant dairyman, dalry division,
United States Department of Agriculture.
John Berthold Dorman, Pd. B., 149 Wardwell avenue, West New Brighton, N. Y.
Teacher New York city schools.

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Bradford Dougherty, 632-634 Minnesota avenue, Kansas City, Kan. Merchant. Charles Silar Evans, M. D., Rooms 35-39, McCurdy building, Hutchinson, Kan. Physician and surgeon.
Robert Kilby Farrar, Osborne, Kan. Superintendent of city schools. George William Finley, Tonkawa, Okla. Professor of mathematics, Oklahoma University preparatory school.
Joanna Freeman. Died in 1897.
John Jacob Fryhofer, 1810 Byers avenue, Joplin, Mo. Cashler and bookkeeper for United Iron Works Company.
Elmer George Gilson, 2234 Kansas avenue, Topeka, Kan. Civil engineer, A. T. & S. F. rallway.
George Clifton Hall, 901 Pottawatomie avenue, Manhattan, Kan. Printer and publisher.
Alonzo Charles Havens, R. F. D. No. 4, Manhattan, Kan. Farmer.
Gertrude Julia (Havens) Norton. Died in 1905.
Lawrence Wilber Hayes, 300 Western avenue, Topeka, Kan. Foreman local freight department, C. R. I. & P. railway.
John Warren Holland, 228 Calle Alix, Manlla, P. I. Broker.
Henry George Johnson, D. D. S., Lindsborg, Kan. Dentisher.
Susan Effe (Johnson) Cooper, Blakeman, Kan. Housewife.
Marian Elizabeth (Jones) Pincomb, M. S., Lenexa, Kan. Housewife.
Marian Elizabeth (Jones) Pincomb, M. S., Lenexa, Kan. Housewife.
Thomas Lormer Jones, 731 Barnett street, Kansas City, Kan. Piano-tuner, J. W. Jenkins' Sons Music Company.
Edward Clarence Joss, M. D. C., 402 custom-house, Portland, Ore. Inspector in charge Portland, Ore., station, bureau of animal industry, United States Department of Agriculture.
Royal S. Kellogs, M. S., Riverdale, Md. Assistant forester, United States forest service.
Mark Kirkpatrick, 325 B street, S. W., Ardmore, Okla. Real estate.
    charge Portland, Ore., Station, buteau of animal industry, partiment of Agriculture.

Royal S. Kellogg, M. S., Riverdale, Md. Assistant forester, United States forest service.

Mark Kirkpatrick, 325 B street, S. W., Ardmore, Okla. Real estate.

Edith Lynette (Lantz) Simmons, 308 S. Fifth street, Victor, Colo. Housewife.

Bedith Lynette (Lantz) Simmons, 308 S. Fifth street, Victor, Colo. Housewife.

Sue (Long) Strauss, 431 East Tenth street, Oklahoma City, Okla. Housewife.

Charles W. Lyman, care of Seymour Packing Company, Topeka, Kan. Traveling salesman, Seymour Packing Company.

Charles Dwin McCauley, R. F. D. No. 2, Fowler, Kan. Farmer and stockman, Elda Lenore (Keen) Moore, Manhattan, Kan. Housewife.

Charles Sumner Marty, Lake City, Barber county, Kansas. Farmer and stockman, Elda Lenore (Keen) Moore, Manhattan, Kan. Housewife.

Arthur Houston Morgan, R. F. D. No. 3, Long Island, Kan. Farmer and stock-raiser, Clara Verena (Newell) Brandt, Glenville, Neb. Housewife.

Ellen Elizabeth (Norton) Adams, R. F. D. No. 1, Arapahoe, Colo. Housewife.

Ellen Elizabeth (Norton) Adams, R. F. D. No. 1, Arapahoe, Colo. Housewife.

Ellen Elizabeth (Norton) Adams, R. F. D. No. 1, Arapahoe, Colo. Housewife.

Mary Kerilla (Painter) Rogers, Doby Springs, Okla. Housewife.

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Mary Kerilla (Painter) Rogers, Doby Springs, Okla. Housewife.

Elva Luthera (Palmer) Barrows, R. F. D. No. 5, Washington, Kan. Housewife.

Fannle (Parkinson) Moyer, Lyndon, Kan. Housewife.

Fannle (Parkinson) Moyer, Manhattan, Kan. Farmer.

Charles Edwin Pincomb, Lenexa, Kan. Stockman.

Charles Edwin Pincomb, Lenexa, Kan. Foreman of foundry, Kansas State Agricultural College.

Mary Josephine (Pincomb) Moats, box 54. Tampleo, Mexico. Housewife.

Ho
                 Sadie (Stingley) Haggman, 723 West Twenty-third street, Los Angeles, Cal. House-
                 Sadie (Sungley) Haggman, 125 west I went; Link at set, 265 Linguist, wife.

Gertrude Ella Stump, Manhattan, Kan. Assistant in domestic art department, Kansas State Agricultural College.

Miriam Esther (Swingle) Joss, corner Gladstone and Garland streets, Portland, Ore.

Housewife.

William Elwood Thackrey, Crow Agency, Mont. Principal Crow Agency Indian
                 william Elwood Thacater, Clow Eggs., School.

James Dunbar Trumbull.

Frank Edwin Uhl, 607 Quindaro boulevard, Kansas Clty, Kan. City Milk and Creamery Company.

Edwin H. Webster, M. S., Manhattan, Kan. Director State Agricultural Experiment Station.
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Corn Atwell, 1125 West Third street, Topeks, Kan. At home. Roger Williams Bishoft, Leupp, Ardz. Principal, Leupp Indian school. Mary Frances (Carnell) Roe, Dotrance, Kan. Housewife. William Burns Chase, Dodge City, Kan. Wire chief, Dodge City Telephone Company. Frank E. Cheadle, Charokse, Okla. Farmer. Robert Chaman Clotheler, M. S., 923 East Sirth street, Tuscon, Ariz. Professor of articulture and superinendent of farmers' institutes in University of Arizona. Maggie A. (Correll) Uhl, 607 Quindaro houlevard, Kanasa City, Kan. Housewife. Mabel (Crump) McCauley, 6066 Monroe avenue, Chicago, Ill. Housewife. Fred Volley Dial, Irring, Kan. Farmer. Viola Grace Dille, 3425 Michigan avenue, Kansas City, Mo. Clerk Meriden Creamery Company. Deal in 1903. George Doll, Pierceville, Kan. Farmer. Anna Phillipina (Engle) Blackman, Manhattan, Kan. Housewife. Emma (Finley) Schröder, 625 North Garey avenue, Pomona, Cal. Housewife. Philip For, M. Schröder, 625 North Garey avenue, Pomona, Cal. Housewife. Philip For, Christophia, Christo Cora Atwell, 1125 West Third street, Topeka, Kan. At home. Roger Williams Bishoff, Leupp, Ariz. Principal, Leupp Indian school. Mary Frances (Carnell) Roe, Dorrance, Kan. Housewife. William Burns Chase, Dodge City, Kan. Wire chief, Dodge City Telephone Com-

Emory Sherwood Adams, Fort Douglas station, Salt Lake City, Utah. First lieutenant, Fifteenth United States infantry.

Joshua William Adams, R. F. D. No. 1, Arapahoe, Colo. Ranchman.
Samuel John Adams, R. F. D. No. 1, Arapahoe, Colo. Farmer and teacher.

Thomas Walter Allison, R. F. D. No. 1, Florence, Kan. Fruit-grower and farmer.

William Anderson, M. S., 128 Hubbell avenue, Houghton, Mich. Instructor in physics and electricial engineering, Michigan College of Mines.

Jessie Geneva (Bayless) Staver, R. F. D. No. 1, Lenexa, Kan. Housewife.

Hope (Brady) Anderson, 128 Hubbell avenue, Houghton, Mich. Housewife.

Robert Henry Brown, Manhattan, Kan. Assistant professor of music, Kansas State Agricultural College.

Earl Carver Butterfield, Arlington farm, Rosslyn, Va. Superintendent Arlington farm, United States Department of Agriculture.

John Alfred Conover, State Department of Agriculture, Raleigh, N. C. In charge coöperative dairy demonstration work, United States and State Departments of Agriculture.

Minnie Laura Copeland, Bethesda Hospital, 909 Quincy street, Topeka, Kan. Trained nurse, Bethesda Hospital, 909 Quincy street, Topeka, Kan. Anna Magdalena (Dahl) Davis, R. F. D. No. 1, Montrose, Kan. Housewife.

Lucy Maria (Cottrell) Pottorf, R. F. D. No. 1, Montrose, Kan. Housewife.

Inga Josephine Dahl, R. F. D. No. 1, Montrose, Kan. Teacher.

Casie Belle Dille, 3425 Michigan avenue, Kansas City, Mo. Stenographer, Meriden Creamery Company.

Emma Phillipine Doll, Larned, Kan. Teacher.

Cora Elizabeth (Ewalt) Brown, Manhattan, Kan. Housewife.

Guy Francis Farley, Melvern, Kan. Farmer.

Mary (Finley) Ridenour, Manhattan, Kan. Housewife, and graduate student, Kansas State Agricultural College.

Arthur Lorenzo Frowe. Died in 1904.

William Logan Hall, M. S., Hyattsville, Md. Assistant forester, in charge branch of products, United States forest service.

Anna Viola (Hanson) Higinbotham, Manhattan, Kan. Housewife.

Walter Bugene Hardy, 2965 South Elati street, Denver, Colo. Contractor and builder.

James Madison Harvey, R. F. D. No. 1, Ogden, Kan. Farmer.

Emmett Vivlan Hoffman, Enterprise, Kan. Manager Hoffman & Son Milling Company, secretary The Hoffman Elevator Company, and president The Kansas Concrete Stone Company.

Guy Dudley Hulett, D. O. Died in 1904.

Bertha Emma Ingman, Barnes, Kan.

Ary Cordelia (Johnson) Butterfield, 3821 Morrill avenue, Kansas City, Mo. Housewife.

Charles Percy King, Eyhanks, Okla. Secretary, The King Lumber Company. Charles Percy King, Euhanks, Okla. Secretary, The King Lumber Company. Bessie May (Lock) Nohle, Hobart, Okla. Housewife. Olive Long. Died in 1902.
William Andrew McCullough, M. D., Delavan, Kan. Physician and surgeon. Inez Isadore (Manchester) Allison, R. F. D. No. 1, Florence, Kan. Housewife. Florence Adelia Martin. Died in 1901.
Henry Alba Martin, R. F. D. No. 1, Admire, Kan. Farmer and dairyman. Alice Maude Melton, Manhattan, Kan. Clerk in chemical department, Kansas State Agricultural College.
George Gerkein Menke, Garden City, Kan. Stock-breeder.
Mary Frances Minls, 612 Pierre street, Manhattan, Kan. Deputy county treasurer of Riley county.
May (Moore) Dakin, 1147 N. Emporia avenue, Wichita, Kan. Housewife.
Harriet Grace (Nichols) Donohoo, 703 Monroe street, Tucumcari, N. M. Deputy probate clerk and ex officio recorder.
Schuyier Nichols, M. D., 109 South Broadway, Herington, Kan. Physician and surgeon. probate clerk and ex officio recorder.
Schuyier Nichols, M. D., 109 South Broadway, Herington, Kan. Physician and surgeon.
Lucy Junie Parks, Hominy, Okla. Teacher.
Ernest Bryon Patten, Carthage, S. Dak. Assistant cashler, State Bank of Carthage.
C. Jeanette (Perry) Thomas, 1253 S. Thirteenth street, Harrisburg, Pa. Housewife.
Emilie Matilda (Pfuetze) Samuel, Manhattan, Kan. Housewife.
John Martin Piere, Geyserville, Cal. Fruit-grower.
Raymond Haines Pond, M. S., Ph. D., 2573 Decatur avenue, Fordham, New York city.
Biologist for Metropolitan Sewerage Commission of New York.
William Poole, R. F. D. No. 2, Manhattan, Kan. Farmer.
Willis Thomas Pope, Honolulu, H. I. Professor of horticulture and hotany, College of Hawali.
Nora May (Reed) Pierce, Geyserville, Cal. Honsewife.
Gertrude Elizabeth Rhodes, 319 Colorado street, Manhattan, Kan. At home.
Henry William Rogler, Bazaar, Kan. Farmer and stockman.
Ferdinand John Rumold, Hope, Kan. Farmer and stockman.
Martin Wilhur Sanderson, R. F. D. No. 1, Cedar Vale, Kan. Farmer and stockraiser.
Olive Maria (Shelden) Parker, 319 Prospect avenne, El Paso, Tex. Housewife.
Edwin Lee Smith, 820 Laramie street, Manhattan, Kan. Rural letter-carrier.
Oliver Russell Smith, C. E., Zillah, Wash. Assistant irrigation manager, United States reclamation service.
Bertha (Spohr) Smith, 312 South Main street, Fort Scott, Kan. Housewife.
Andrew B. Symns, R. F. D. No. 5, Troy, Kan. Farmer and stock-raiser.
Cora Thackrey, Valentine, Neb. Teacher.
Harriet Emerson (Thackrey) Reece, Simeon, Neh. Housewife.
Henry Marsden Thomas, 1253 South Thirteenth street, Harrisburg, Pa. General collection agent, J. I. Case Threshing-machine Company.

Ahner Davis Whipple, 259 South Clinton street, Chicago, Ill. Auditor, Western Electric Company.
Adelaide Frances (Wilder) Sawdon, M. S., 961 East State street, Ithaca, N. Y. Housewife. Josephine Hannah (Wilder) McCullough, M. S., Delavan, Kan. Housewife, Frank Yeoman, LL. B., 4022 Terrace street, Kansas City, Mo. Lawyer, 57 Water-works building. Frederick Zimmerman, Cheney, Kan. Cashier Cheney State Bank.

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Bonnie Frances (Adams) Wilkin, R. F. D. No. 7, Hoxie, Kan. Housewife.
Morrison Carpenter Adams, R. F. D. No. 2, Glade, Kan. Stock farmer.
Melvia Fairetta Avery, M. D., Wakefield, Kan. Physician and surgeon.
Albert Edwin Blair, 815 Tyler street, Topeka, Kan. Architect, and Topeka agent
Kansas City Star.

James Courtney Bolton, R. F. D. No. 1, Zeandale, Kan. Farmer.
Joseph Abbott Butterfield, 3821 Morrill avenue, Kansas City, Mo. Railway postal James Courtney Botton, R. F. D. No. 1, Zeandale, Kan. Farmer.

Joseph Abbott Butterfield, 3821 Morrill avenue, Kansas City, Mo. Railway postal clerk.

Willitt Ransom Correll, Manhattan, Kan. Carpenter.

Ernest Lerned Cottrell, Wabaunsee, Kan. Farmer.

Alfred Burton Dille, jr., Alamagordo, N. M. Contractor.

Francis Joseph Hablger, Bushton, Kan. Farmer.

John George Haney, Oswego, Kan. Manager of the Deming ranch.

John Andrew Harvey, Alamagordo, N. M. Ranchman.

Grace Edna (Hill) Champlin, Phillipsburg, Kan. Housewife.

Hiram Adsit Holzer, 206 West Park avenue, Pittsburg, Kan. Superintendent Pittsburg plant, United Iron-works Company.

Charles Cilfford Jackson, R. F. D. No. 1, Westmoreland, Kan. Farmer.

Fred Emanuel Johnson, D. V. S., O'Nell, Neb. Inspector, bureau of animal industry, United States Department of Agriculture.

Harry Wallace Johnston, R. F. D. No. 4, Caldwell, Kan. Stockman.

Lot Parker Keeler, 819 East Seventh North street, Portland, Ore. Architect and builder.

John Martin Kessler, Twenty-fifth and Kansas avenue, Topeka, Kan. Florist.

Albert Thomas Kinsley, M. S., D. V. S., 2108 East Thirty-sixth street, Kansas City, Mo. Pathologist and curator museum, Kansas City Veterinary College; pathologist Hahnemann Medical College.

Frank Elmer LaShelle, Manhattan, Kan. Job-printer in printing department, Kansas State Agricultural College.

Christian Dagobert Lechner, Russell, Kan. Contractor, builder and plumber.

Ross Long. Died in 1908.

Loulsa Mary (Maelzer) Haise, Russell, Kan. Housewife.

Kate Anna Manly, 914 Moro street, Manhattan, Kan. Teacher in city schools.

Claud Masters, box 12, Sulphur, Okla. Abstracts and loans.

Robert Bertice Mitchell. Died in 1904.

Jennie June (Needham) Carter, R. F. D. No. 1, Rantoul, Kan. Housewife.

Roscoe Townley Nichols, M. D., Kansas avenue, Liberal, Kan. Physician and surgeon.

Fanny Gertrude Noyes, 1458 Wyandotte avenue, Lakewood, Ohio. Private nurse.

Harry Delphos Orr, M. D., 103-109 Randolph street, Chicago, Ill. Physician and surgeon. surgeon.

George Washington Owens, Petersburg, Va. Agriculturist and instructor in botany and nature study, State Normal and Industrial Institute.

Carrie Vashti (Painter) Desmarias, Lakeland, Kan. Housewife.

Ella Emerson Peck, 313 West Jones street, Sherman, Tex. Student of music, North Texas Female College.

Anna C. (Pfuetze) Julian, Olathe, Kan. Housewife.

Andrew Pottorf, R. F. D. No. 1, Riley, Kan. Farmer.

Mary Bly (Pritner) Lockwood, Allegheny Place, Meadville, Pa. Housewife.

Otto Independence Purdy, 2428 Lake street, Omaha, Neb. Field-man, Daily Drovers-Journal Stockman. surgeon. Otto Independence Purdy, 2428 Lake street, Omaha, Neb. Field-man, Daily DroversJournal Stockman.

Delmer William Randall, Filer, Idaho. Farmer and civil engineer.

William Harry Roberts, Vernon, Kan. Farmer.

Frank Sessions Shelton, Ketchiken, Alaska. Bookkeeper.

Louisa Mary Spohr, Manhattan, Kan. Trained nurse.

Annie Louisa (Streeter) Haney. Died in 1906.

Nellie (Towers) Brooks, 301 West Thirteenth street, Kansas City, Mo. Housewife.

Otho Sprague True, R. F. D. No. 2, Paxico, Kan. Farmer.

James Otis Tulloss, Sedan, Kan. Merchant, and Regent Kansas State Agricultural College.

William Guy Tulloss, Rantoul, Kan. Cashier State Bank; grain buyer.

George Franklin Wagner, Enterprise, Kan. Farmer and stock-raiser.

Mary Lana (Waugh) Smith, 406 Tenth avenue, N., Seattle, Wash. Housewife.

Charles Bernard White, 708 Lawrence street, Topeka, Kan. With Seymour Packing Company.

Nannie Elizabeth Williams, 6 Mersington street, Kansas City, Mo. Stenographer.

Alexander George Wilson. Died in 1902.

Frederick Otto Woestemeyer, B. D., Rossville, Kan. Minister.

Elizabeth Jane Agnew, D. S., 330 St. Francis street, Wichita, Kan. Instructor of domestic science and art in high school.

Elizabeth Edna (Asbury) Derr, D. S., 654 South Montana street, Butte, Mont. Housewife. Effic Elizabeth (Bailey) Foltz, Gen. S., Zeandale, Kan. Housewife. Alvah I. Bain, Gen. S., Marysville, Kan.

```
Harry M. Bainer, Agri., M. S. A., 900 Smith street, Fort Collins, Colo. Professor of farm mechanics, Colorado Agricultural College.
Charlotte Almira (Berkey) Smith, Gen. S., El Dorado, Kan. Housewife.
John Harold Blachly, Gen. S., D. D. S., Manhattan, Kan. Dentist.
Minerva (Blachly) Dean, Gen. S., Manhattan, Kan. Housewife.
Zina Leigh Bliss, Gen. S., A. B., Katy, Tex. Nurseryman and landscape architect.
Fred Winchester Bobbitt, M. E., 1185 K street, Perry, Okla. Chief draftsman for the H. & B. T. Railway Company, Houston, Tex.
Lillie Grace Bolton, D. S., R. F. D. No. 1, Wamego, Kan. Teacher.
Prudence Deli (Broquet) Bailey, D. S., Hucrfano, Colo. Housewife.
Neilie (Burtner) Sargent, D. S. Died in 1901.
Clarence Asa Chandler, Agri., Swope Park, R. F. D. No. 3, Kansas City, Mo. Superintendent Swope Park.
Frederick Waldemar Christensen, Gen. S., M. S., box 710, Yale Station, New Haven, Conn. Graduate student, Yale University; after July 1 assistant in animal nutrition in the institute of animal nutrition, Pennsylvania State College, State College, Pa.
Ernest Mansel Cook, Gen. S., Oakley, Kan. Farmer.
Charles McLain Correll, Gen. S., Ph. B., Ph. M., Mayville, N. Dak. Professor of history and social science, State Normal School.
Jennie Maude Currle, Gen. S., 904 Monroe street, Topeka, Kan. Stenographer, A. T. & S. F. general offices.
Harry Leroy Dern, Gen. S., Cimarron, Kan. Farmer.
Homer Derr, Agri., M. S., 654 South Montana street, Butte, Mont. Instructor in physics, Butte high school.
Mary Alberta (Dille) Hulett, Gen. S., Alamagordo, N. M. Teacher.
Rohert Edward Eastman, Agri., Manhattan, Kan. Assistant horticulturist, Kansas State Agricultural College.
Jennie (Edelblute) Smethurst, Gen. S., 809 Laramie street, Manhattan, Kan. Housewife.
         wife.

Engene Emrick, Gen. S., 1913 Virginia avenue, Joplin, Mo. Bookkeeper and cashier for L. B. Price Mercantile Company.

Josephine Finley, Gen. S., Manhattan. Kan. Stenographer in Horticultural Department, Kansas State Agricultural College.

Harry Verne Forest, M. E., Winfield, Kan. Superintendent, water and light plant. George Ogden Greene, Agri., M. S., Plainville, Kan. Merchant.

Herman C. Haffner, Gen. S., Hesperus, Colo. Assistant superintendent, Fort Lewis Indian school.

Gnstaf William Hanson, M. E., lock box P. Marquette, Kan. Proprietor and superintendent of Hanson Noveity Manufacturing Company.

James William Harner, Gen. S., Manhattan, Kan. Senior veterinary student; Kansas State Agricultural College.

Daisy Gladys (Hoffman) Johntz. D. S., 307 Vine street, Ahllene, Kan. Housewife. Walter Fisk Lawry, M. E., 6929 Yale avenue, Chicago, Ill. Draftsman with the Link Belt Company.

Amanda Culp (McCarty) Coats, D. S., 184 West Sixth street, Eugene, Ore. Housewife.
            Amanda Culp (McCarty) Coats, D. S., 184 West Sixth street, Eugene, Ore. Housewife.

N. Ollie (McCurry) Walker, Gen. S., Plymouth, Kan. Housewife.

George G. McDowell, Gen. S., 2707 Second avenue north, Billings, Mont. Cicrk.

Roland McKee, Gen. S., Chico, Cal. Scientific assistant in horticulture, United States

Department of Agriculture.

Nettie (McLaren) Scott, D. S., Santa Fe, Kan. Housewife.

Charles Dudley Montgomery, Agri. Died in 1902.

Fred Byers Morlan, Agri., R. F. D. No. 1, Courtland, Kan. Farmer.

Andrew Edward Oman, Gen. S., M. F., forest service, Washington, D. C. Forest assistant, forest service, United States Department of Agriculture.

Kate (Paddock) Hess, Gen. S., 2016 Prospect street, Kansas City, Mo. Housewife.

Joseph Lloyd Pancake, Agri., Mt. Airy, Ga. Farmer and stock-raiser.

Albert William Parrack, Gen. S., Died in 1901.

Edith (Perkins) Myers, Gen. S., 1708 Oak street, South Pasadena, Cal. Housewife.

Elenore (Perkins) Moody, Gen. S., South Pasadena, Cal. Housewife.

Elenore (Perkins) Moody, Gen. S., South Pasadena, Cal. Housewife.

Paul du Chaillu Piersol, Gen. S., 119 South First street, Guthrie, Okla. Manufacturer.
                      Elenore (Perkins) Moody, Gen. S., 119 South First street, Guthrie, Okla. Manufacturer.

Luther Eugene Potter, Agri., Myton, Utah. Farmer and fruit-grower.

Luther Eugene Potter, Agri., Myton, Utah. Farmer and fruit-grower.

Luther Eugene Potter, Agri., Myton, Utah. Farmer and fruit-grower.

Clara Spliman, Gen. S., Manhattan, Kan. Assistant in office of register of deeds.

Mabel Stewart, Gen. S., Neosho, Mo. Instructor in mathematics, high school.

Stella Stewart, D. S., Wingohocking Hall, Mt. Airy, Philadelphia, Pa. Teacher, intermediate department, Pennsylvania Institution for the Deaf.

Fayette Charles Sweet, Gen. S., Sophia, Okla. Stockman.

Cora Edith Swingle, Gen. S., 551 Church street, Ann Arbor, Mich. Student.

Cora Edith Swingle, Gen. S., M. S., 713 South Grand avenue, Bozeman, Mont. Assistant professor of botany, Montana Agriculturai College.

Sistant professor of botany, Montana Agriculturai College.

Barton Thompson, Gen. S., Garrison. Kan. Farmer and stock-raiser.

Barton Thompson, Gen. S., Enterprise, Kan. At home.

Laura Helen (Trumbull) Correll, Gen. S., Mayville, N. Dak. Housewife.

Jessie May Wagner, D. S., Enterprise, Kan. At home.

Luther Watts Waldraven, M. E., R. F. D. No. 1, Winkler, Kan. Farmer and stock-raiser.

Kate Elizabeth Zimmerman, Gen. S., Sumpter, Ore. Teacher of English and mathematics in high school.
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Del Mar Akin, Gen. S., M. D., Manhattan, Kan. Farmer.
Cyrus Norton Ailison, Agri., D. D. S., box 954, Falls City, Neb. Dentist.
Loua Adeile (Blachiy) Freeman, Gen. S., Manhattan, Kan. Housewife.
Harry S. Bourne, Gen. S., Delphos, Kan. Implement business.
Charles J. Burson, Gen. S., Hewlas, Kan. Banker.
Howard Frank Butterfield, Gen. S., Mayville, N. Dak. Head of manual training department, State Normal School.
Edwin Charles Cook, M. E. Died in 1903.
Ina Foote Cowles, D. S., Manhattan, Kan. Assistant in domestic art department,
Kansas State Agricultural College.
Trena (Dahl) Turner, Gen. S., Norton, Kan. Housewife.
Fannie Rachel Ellen Dale, Gen. S., Manhattan, Kan. Stenographer in mechanical department, Kansas State Agricultural College.
Herman August Diehail, Gen. S., R. F. D. No. 3, Alma, Kan. Farmer and stockraiser.
Edgar Wills Doane, Gcn. S., A. B., Palo Alto, Cal. Civil engineer and contractor.
Otto H. Elling, Agrl., R. F. D. No. 4, Lawton, Okla. Farmer and stockman.
Vaientine Meacham Emmert, Agri, Brogado, Tex. Farmer.
Rainey Faris, M. E., box 371, Upper Alton, Ill. Mechanical engineer for Western
Cartridge Company, Equitable Powder Manufacturing Company, and F. W.
Olln.
Harry Halnes Fay, Agri, R. F. D. No. 2, Wilsey, Kan. Farmer.
    Olin.

Harry Haines Fay, Agri., R. F. D. No. 2, Wilsey, Kan. Farmer.

Fred Fockele, Gen. S., Waverly, Kan. Banker.

Louise Gerteis, Gen. S., Dewey, Okla. Teacher.

Maud Hart, D. S., Albuquerque, N. M. Matron in mission school.

Fred Willis Haselwood, Gen. S., First and Adeline streets, Oakland, Cal. Resident engineer, Western Pacific Railway Company.

Minnie M Howell, D. S., 838 Freeman avenue, Kansas City, Kan. Teacher of domestic science and art in Summer high school.

Edith (Huntress) Rhoades, D. S., 503 South Chestnut street, Olathe, Kan. Housewife.
  wife.
Louis Berten Jolley, Gen. S., M. D., Eighteenth and State streets, North Chicago, Iii. Physician and surgeon.
Heien (Knostman) Pratt, D. S., Manhattan, Kan. Housewife.
Daniël Ladd, Gen. S., 5490 Monroe avenue, Chicago, Ill.
Erma Elizabeth Locke, D. S., Mountain Grove, Mo. Teacher.
Harvey McCaslin, Gen. S., A. B., LL. B., Atwood, Kan. Lawyer.
Madge Ruth (McKeen) Axeiton, D. S., Randolph, Kan. Housewife.
John A. McKenzie, Agril. R. F. D. No. 1, Solomon, Kan. Farmer and stockman.
George Martinson, Gen. S., Manhattan, Nev. Attorney at iaw.
Walter E. Mathewson, Gen. S., M. S., United States Food and Drug Laboratory, Appraiser's Stores, New York city. Assistant chemist, United States food and Maude (Milier) Cook, Gen. S., Oakley, Kan. Assistant principal in high school.
Emma Maude (Milier) Cook, Gen. S., Oakley, Kan. Assistant principal in high school.

Margaret Jane (Milis) Snodgrass, Gen. S., Kodiak, Alaska. Housewife.
Ciarence William Morgan, Gen. S., Blessing, Tex. Rice farmer.
Eugene Lawrence Morgan, Gen. S., M. D., Phillipsburg, Kan. Physician and surgeon. Ruth Atwill Mudge, Gen. S., Neighborhood House, Louisvilie, Ky. Teacher of botany, girls high school.

Jessie May Mustard, Gen. S., Solomon, Kan. Primary teacher.
Martha (Nitcher) Sowers, Gen. S., R. F. D. No. 1, Ames, Iowa. Housewife.
John H. Oesterhaus, Gen. S., D. V. S., Fort Riley, Kan. Veterinarian, Seventh United States cavalry.

Carrie Belie Oneel, D. S., 130 Church street, Sallnas, Cal. Auditor and bookkeeper. Helena Maude Pincomb, D. S., 712 North Oregon street, Urbana, Ill. Instructor, household science, University of Illinois.
Bryant Poole, Agrl., R. F. D. No. 2, Manhattan, Kan. Farmer.
Leroy Rigg, Gen. S., Kirwin, Kan. Farmer and stock-raiser.
William Stephen Sargent, Gen. S. Died in 1908.

Maude (Sauble) Rogler, D. S., Bazaar, Kan. Housewife.
Charies A. Scott, Agrl., 420 Ash avenue, Ames, lowa. Professor of forestry, Iowa State College.
Anna Louisa (Smith) Kinsiey, Gen. S., 2108 East Thirty-sixth street, Kansas City, Mo. Housewife.
Adelaide Strite, Gen. S., East 1418 Courtland avenue, Spokane, Wash. Teacher.
Anna Odette (Summers) Galligan, Gen. S., South 1420 Mt. Vernon street, Spokane, Wash. Housewife.
Lncy (Sweet) Betts, Gen. S. Housewife.
Perrin K. Symns, Agrl., R. F. D. No. 5, Troy, Kan. Farmer and stock-raiser.
Estella Mae (Tharp) Edwards, Gen. S., 1111 Rosemont avenue, Chicago, Ill. Medicai student and housewife.
Heirn Castle (Turne) Goddard, Gen. S., Seward, Okia. Housewife.
Heirn Castle Turner, Gen. S., Fort Bayard, N. M. Planting assistant, forest service, United States Department of Agrlculture.

Forence Helen (Vail) Butterfield, Gen. S., Mayville, N. Dak. Housewife.
Mary Caroline (Wagner) Gresham, Gen. S., box 314, Grand Junction, Colo. Housewife.
           Eleanor Mary White, D. S., American Fails, Idaho. Teacher.
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Katharena (Winter) Hawks, D. S., 509 South Lafayette avenue, Chanute, Kan. Housewife. Lucie Joan (Wyatt) Wilson, Gen. S., Onaga, Kan. Housewife. Henry Theador York, M. E. Died in 1902.

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Mamie (Alexander) Boyd, Gen. S., Phillipsburg, Kan. Housewife.

Edgar McCall Amos, Gen. S., 1015 Leavenworth street, Manhattan, Kan. Printer
and publisher.

Henry Albert Avery, Gen. S., Wakefield, Kan. Hardware, furniture and implement
dealer.

Etta Marie Barnard, D. S., box K, Esbon, Kan. Teacher in grammar grade and in
charge of manual-training work.

Mary Olive Barr, D. S., Manhattan, Kan. At home.
George Ford Bean, E. E., St. George, Kan. Carpenter and form builder, Walters
Construction Company, Manhattan, Kan.

Charles Dallas Blachly, Gen. S., M. D., Hewins, Kan. Physician.

Bessie Sarah Bourne, D S., R. F. D. No. 1, Delphos, Kan. At home.
Martha Amelia Briggs, D. S., Manhattan, Kan. Clerk, E. A. Wharton's store.

Emma M. (Cain) Weiss, Gen. S., Virginia, Neb. Housewife.

Floyd Adelbert Champlin, Gen. S., Phillipsburg, Kan. Stock farmer.

Elijah Ellis Chase, Agri., R. F. D. No. 1, Merriam, Kan. Farmer.

Charles Howard Clark, Agri., Kinsley, Kan. Farmer.

Charles Howard Clark, Agri., Kinsley, Kan. Farmer.

Murray Stanley Cole, M. E., 11 Bethany Circle, Santa Cruz, Cal. Machinist, with
Coast Counties Light and Power Company.

Robert Curtise Cole, Agri., Platte, S. Dak. Stockman.

Lottle Irene Crawford, D. S., University of Wyoming, Laramie, Wyo. Teacher of
domestic art and domestic science.

Sarah Emily Davies, D. S., Bala, Kan. Teacher.

Della (Drollinger) Glunt, Gen. S., Garrison, Kan. Housewife.

Charles Eastman, Gen. S., D. V. S., Cambria, Cal. Veterinary inspector. bureau of
animal industry, United States Department of Agriculture.

Lesle Arthur Fitz, Gen. S., Agricultural College, Fargo, N. Dak. Assistant in grain
standardization, United States Department of Agriculture; in charge cooperative milling experiments.

Glick Fockele, M. E., Le Roy, Kan. Insurance and loan agent.

Clark A. Gingery, Gen. S., R. F. D. No. 2, Caldwell, Kan. Farmer.

William Lee Harvey, Gen. S., R. F. D. No. 3, Boise, Idaho. Ranchman.

William Lee Harvey, Gen. S., R. F. D. No. 3, Boise, Idaho. Ranchman.

William Lee Harvey, Gen Christine Delphine (Hofer) Johnson, D. S., 48 Dover Street, Newark, R. 3. House wife.

Henrietta Mattie Hofer, D. S., Westfield, N. J. Soprano soloist, Preshyterian church. Edouard Wilfred Honse, Gen. S., 241 South Tenth street, Kansas City, Kan. Pattern-maker and millwright, Proctor & Gamble Soap Company.

Letta Birdilla (Keen) Dnncan, D. S., Junction City, Kan. Housewife.

Edgar Willis Kimball, Gen. S., 601 Manhattan avenue, Manhattan, Kan. Publisher of Republic.

Arthur Henry Leidigh, Agri., R. F. D. No. 3, Hutchinson, Kan. Farmer and stockof Republic.

Arthnr Henry Leidigh, Agri., R. F. D. No. 3, Hutchinson, Kan. Farmer and stock-raiser.

George M. Logan, Gen. S., M. D., 304-306 Everett building, Akron, Ohio. Physician and snrgeon.

Otto Meade McAninch, Gen. S., Weskan, Kan. Farmer and stockman.

Amelia Augusta Maelzer, Gen. S., Salmon, Idaho. Teacher.

Margaret Myrile (Mather) Romine, D. S., R. F. D., Mooresville, Ind. Housewife, and lectnrer on domestic science, farmers' institutes.

Roger Bonner Mullen, Agrl., 4227 Fifteenth avenue, N. E., Seattle, Wash. Student of electrical engineering, University of Washington.

Grover Poole, Agrl., R. F. D. No. 2, Manhattan, Kan. Farmer.

Abbie Elida (Putnam) Cutting, Gen. S., Lenora, Kan. Housewife.

Henry Panl Richards, M. E. & E. E., lock box 116, Topeka, Kan. Real-estate and insurance agent.

Eva Talitha Rigg, D. S., East Fifteenth street and Denver avenue, Kansas City, Mo.

Teacher, Training School for Deaconesses.

John Francis Ross, Agri., United States Experimental Farm, box 729, Amarillo, Tex. Superintendent United States Experimental Farm.

Pontus Henry Ross, Gen. S., Mountain Home, Idaho. Farmer.

Pontus Henry Ross, Gen. S., Mountain Home, Idaho. Farmer.

Fred Lewis Schneider, Agrl., D. V. S., room 208, Occidental Life building, Alhuquerqne, N. M. Veterinary inspector, hureau of animal industry, United States Department of Agriculture.

Edmund Ray Secrest, Gen. S., 89 North Market street, Wooster, Ohio. Assistant forester, Ohio Agricultural Experiment Station.

Glen Reid Shepherd, E. E., 623 Oakland avenue, Kansas City, Kan. Merchant.

Glen Reid Shepherd, E. E., 623 Oakland avenue, Kansas City, Kan. Student, Kansas City Veterinary College.

John Thomas Stafford, Gen. S., Crawford, Colo. Ranchman and orchardist. Arthur Henry Leidigh, Agri., R. F. D. No. 3, Hutchinson, Kan. Farmer and stockMyrtie Lucy Toothaker, D. S., Chance, Mont. Rancher.
Fred Walters, Agri., Manhattan, Kan. Cement-work contractor.
Lilly Maud Zimmerman, D. S., Moray, Kan. Teacher of mathematics in Proctor
Academy, Provo, Utah.

1903.

Richard Franklin Bourne, Gen. S., D. V. S., 3308 Garfield avenue, Kansas City, Mo. Professor of physiology, Kansas City Veterinary College.

Howard McCune Chandler, M. E., 627 State avenue, Kansas City, Kan. Mechanicai engineer.

DeVerne E. Corhin, M. E., care Watch Tower Bihle and Tract Society, 13-17 Hick street, Brooklyn, N. Y. Colporteur.

James A. Correll, Agril., 4211 Avenue F, Austin, Tex. Tutor in electrical engineering, University of Texas.

Amos Luther Cottrell, Agril., 279 Douglas avenue, Eigin, III. Feed expert and salesman for the Quaker Oats Company, Chicago, III.

Claude Carroll Cunningham, Agril., Hays, Kan. Assistant in agriculture, Fort Hays Branch Experiment Station.

Orrin Pomeroy Drake, M. E., R. F. D. No. 2, Frankfort, Kan. Farmer.

Louis Sidney Edwards, Agril., Stanford, Mont. Farmer.

Robert Alexander Esdon, Gen. S., B. D., Beloit, Kan. Minister.

Corinne (Failyer) Kyle, Gen. S., Washington, D. C. Housewife.

Maude Irene (Failyer) Kinzer, Gen. S., Manhattan, Kan. Housewife.

Estella May Fearon, D. S., Pomeroy Hall, Wellesley, Mass. Instructor in physical education, Wellesley College.

George T. Fielding, E. E., 1216 Union street, Schenectady, N. Y. Commercial engineer, General Electric Company.

James William Fields, Agril., D. D. S., 209 North Main street, McPherson, Kan. Dentist.

Arthur B. Gahan, Gen. S., M. S., College Park, Md. Assistant entomologist, Maryland Experiment Station.

Fred Norton Gillis, Agril., Wishek, N. Dak. Cashier First State Bank, and secretary and treasurer Bankers' Loan Company.

Clara S. Goodrich, Gen. S., Roanoke College, Danville, Va. Teacher of mathematics in Roanoke College.

Edith Anna Goodwin, D. S., M. S. Died in 1908.

Ellsworth Paul Goodyear, Agril., Hays, Kan. Special agent, hureau of plant industry, Mathematics Agrillance and Agrillance. Edith Anna Goodwin, D. S., M. S. Died in 1908.

Ellsworth Paul Goodyear, Agri., R. F. D. No. 1, Oatville, Kan. Fruit-grower and dairyman.

Alanson L. Hallsted, Agri., Hays, Kan. Special agent, hureau of plant industry, United States Department of Agriculture.

Esther E. (Hanson) Ross, D. S. Died in 1909.

Edward Howard Hodgson, Agri., Little River, Kan. Farmer and stock-raiser.

Pearl Holderman, D. S., R. F. D. No. 4, Chetopa, Kan. At home.

Hartley Bowen Holroyd, Gen. S., 544 Logan street, Denver, Colo. Assistant chief, office of products, in forest service, district No. 2, United States Department of Agriculture.

Sarah Hougham, D. S., 320 North Eleventh street, Manhattan, Kan.

Axel H. Johnson, M. E., Avenida Central 76, Rio de Janeiro, Brazil, S. A. Electrician.

Jesse McCullah Jones, Agri., R. F. D. No. 4, Montgomery, Ala. Planter and stock-Jesse McCullah Jones, Agri., R. F. D. No. 4, Montgomery, Ala. Planter and stockraiser.

Curtis Hernon Kyle, Agri., Bureau of Plant Industry, Washington, D. C. Assistant physiologist in charge of corn investigations in southeastern states, hurean of plant industry, United States Department of Agriculture.

Raymond George Lawry, M. E., 319 West Seventy-second street, Chicago, Iil. Assistant engineer, with Roherts & Schaefer Company, engineers and contractors. Rose Margaret McCoy, Gen. S., Wamego, Kan. Teacher.

Edwin William McCrone, Agri., D. V. M., Haddam, Kan. Veterinarian.

Bessie A. (Mudge) Houser, D. S., Wooster, Ohio. Housewife.

Harold Theodore Nielsen, Agri., Abilene, Kan. Farmer.

Ivan Luther Nixon, Gen. S., 79 Jones avenue, Rochester, N. Y. Salesman for Bausch & Lomb Optical Company.

Russell Arthur Oakley, Gen. S., 634 East Capitol street, Washington, D. C. Assistant agrostologist, United States Department of Agriculture.

Anna Louella (O'Daniel) Amos, D. S., 1015 Leavenworth street, Manhattan, Kan. Housewife.

Clara Pancake, D. S., 1422 Poplar street, Philadelphia, Pa.

Celoa Alice (Perry) Hill, D. S., 308 East Alta street, Pendleton, Ore. Housewife.

Alexis Joseph Reed, E. E., 1122 Wesley avenue, Oak Park, Ill. Telephone engineer, with Western Electric Company.

Earl Nathaniel Rodell, Gen. S., Manhattan, Kan. Assistant in printing, Kansas State Agricultural College.

Alice May (Ross) Cunningham, Gen. S., Manhattan, Kan. Housewife.

Alfred Hayes Sanderson, Agri., R. F. D. No. 1, Marysville, Kan. Farmer.

John Marcus Scott, Agri., 1906 West Liherty street, Gainesville, Fla. Professor of animal industry, Florida Agricultural Experiment Station.

Henry August Sidorfsky, E. E., Avenida Central 76, Rio de Janeiro, South America. Electrical engineer, Rio de Janeiro Tramway, Light and Power Company, Ltd. Emma Estella (Smith) Burt, D. S., R. F. D. No. 1, Alma, Kan. Housewife. Jesse McCullah Jones, Agri., R. F. D. No. 4, Montgomery, Ala. Planter and stockLols Stump, D. S., Manhattan, Kan. Teacher.

Harry Raymond Thatcher, Agri. Died in 1906.

Helen B. Thompson, Gen. S., M. S., 221 College avenue, Lincoln, Ill. Director of department of domestic science, Lincoln College.

John Augustus Thompson, Gen. S., D. V. S., Bureau of Agriculture, Manila, P. I. Veterinarian, Bureau of Agriculture of Philippine Islands.

Sarah Pauline (Thompson) Manny, D. S., Borden, Okla. Housewife.

Dovle May (Urlich) Boys, D. S., R. F. D. No. 3, Goodland, Kan. Housewife.

Harry Nelson Vinall, Gen. S., 326 Maryland avenue, N. E., Washington, D. C. Scientific assistant, hureau of plant industry, United States Department of Agriculture. Agriculture.
Alherta Suena (Volles) Williams, Gen. S., Bradley, Cal. Housewifc.
Leon Vincent White, M. E., Havana, Ill. Topographical draftsman, with Sanitary
District of Chicago.

Leon Vincent White, M. E., Havana, Ill. Topographical draftsman, with Sanitary District of Chicago.

1904.

Amy Alena Allen, Gen. S., Manhattan, Kan. Proof-reader in printing department, Kansas State Agricultural College.
Marlan (Allen) Buell, D. S., Garand Pratife. Tex. Housewife.
Grace Allingham, D. S., Oak Glen, Peru, Neb. Teacher of domestic science, Nehraska State Normal.
James State Normal.

Clinton Jesse Axtell, E. E., 17 Barrett street, Schenectady, N.Y. In testing department of the General Electric Company.
Wallace W. Baird, Gen. S., Clay Center, Kan. Farmer.
Flora Evacelia (Ballou) Banning, D. R. R. N. D., Lyndon, Kan. Housewife.
William Burges Bannist, D. S., Indian School, Truxuon, Ariz. Matron, United States Indian School.
Frank Lorin Bates, Gen. S., 422 Portsmouth building, Kansas City, Kan. Lawyer.
Louis Blaine Bender, D. E., Bremetron, Wash. Electrician, burcau of yards and docks, Fuget Sound Navy Yard.
John Jeremiah Biddison, Gen. S., 1505 Rock street, Litle Rock, Ark. City editor,
P. McDonnald Biddison, E. B., Hnntington, W. Va. Mechanical engincer, Columbia Gas and Electric Company.
Wallace Newton Birch, Agril, 135 Tyler street, Fortiand, Ore. Draftsman, with Portland Rallway, Light and Power Company.
Williace Newton Birch, Agril, 135 Tyler street, Fortiand, Ore. Draftsman, with Portland Rallway, Light and Power Company.
Warmenfield Gorison, D. S., Snoder, Colo. Farmer.
Thomas Warner Buell, Agril, Grand Frairle, Tex. Farmer.
Clark Stewart Cole, Agril, Manhattan, Kan. Teacher in city schools.
Victor L. Cory, Gen. S., 501 West Euclid street, McPherson, Kan. Assistant, bureau of plant industry, in ckarge McPherson Cobperative Experiment Station, United States Department of Agricultural College.
William Greene (Cross) Rhodes, D. S., 1524 Harrison street, Topeka, Kan. Assistant chief William Greene Cross, Rhodes, D. S., 1524 Harrison street, Topeka, Kan. Assistant chief William Greene Cross, Rhodes, D. S., 1524 Harrison street, Topeka, Kan. Bunguyer Danish industry, in ckarge McPherson, Kan. Assis 1904.

Charies Aifred Groves, Agri., Edwardsville, Kan. President Sunflower State Agricultural Association.

Mary Elizabeth Longfellow Hall, D. S., 1061 West Thirty-first street, Los Angeles, Teacher. Vaughn Harlan, Agrl., St. Anthony Park, Minn. Assistant in bureau of plant industry, United States Department of Agriculture.

Magdalene Hassebroek, D. S., Hayward, Wis. Teacher of domestic science in the school. Mamie Mandalene Hassebroek, D. S., Hayward, Wis. Teacher of domestic science in high school.

Arthur Hurschel Helder, Gen. S., Carnegle Library building, Kansas City, Kan. Secretary Board of Park Commissioners of Kansas City, Kan.; Graduate student, Kansas State Agricultural College.

Mamie Eva (Helder) Halstead, D. S., Hays, Kan. Housewife.

William A. Hendershot, Gen. S., Beverly, Kan. Principal of high school.

John Samuel Houser, Gen. S., Agricultural Experiment Station, Wooster, Ohio. First assistant entomologist, agricultural experiment station.

Evan James, Gen. S., 924 New Hampshire street, Lawrence, Kan.

John Arthur Johnson, Agri., Colville, Wash. With The Spokane Traction Co., Spokane, Wash.

Helen Kernohan, Gen. S., Beverly, Kan. Member of firm, E. E. Kernohan & Co.

Ralph Teeter Kersey, Gen. S., Wamego, Kan. Principal Axtell high school, Axtell, Kan. Mamie David Statistics of Colors and Agril, Colville, Wash. With The Spokane Traction Co., Johnson Sar, Lawrence, Manager, Kan. Principal Artell high school, Artell, Kan. Raiph Teeter Kersey, Gen. S., Wamego, Kan. Principal Artell high school, Artell, Kan. Charles Franklin Kinman, Gen. S., Santiago de las Vegas, Cuba. Assistant horticulturist, experiment station. R. I. Substitute professor of home economics, George W. Loomis, Agril, R. P. D. No. 4, Girard, Kan. Farmer and stock-raiser. Sara Grace McCrone, Gen. S., Martin City, Mo. Teacher. Vera Alta McDonald, D. S., 222 South Sixth street, Manhattan, Kan. At home. Kirk P. Mason, Gen. S., Martin City, Mo. Teacher. Vera Alta McDonald, D. S., 222 South Sixth street, Manhattan, Kan. At home. Kirk P. Mason, Gen. S., Martin City, Mo. Teacher. Vera Alta McDonald, D. S., 222 South Sixth street, Manhattan, Kan. At home. Howard David Matthews, E. E., 362 McClellan street, Schemectady, N. Y. Switchbourd engineer, General Electric Company. Vernous of engineers, General Electric Company. Vernous General Electric Company. Vernous General Electric Company. Chester Arthur Maus, E. E., 623 Lawrence street, Topeka, Kan. Chief electrician for Santa Fe railway shops. Julia Anna Monroe, Gen. S., Manhattan, Kan. Assistant in botanical department, Kansas State Agricultural College.

Helen Monsch, D. S., School of Domestic Arts and Sciences, 39 State street, Chicago. Samuel Erwin Morian, E. E., 2727 Bales avenue, Kansas City, Mo. Assistant manager, Kansas City Chandeller and Brass Manufacturing Company.

Albert Marvin Nash, E. E., Golden, Colo. Virginia Viola Norton, D. S., 718 Kearney street, Manhattan, Kan. At home. Mary Lorena (O'Daniel) Scott, D. S., 1906 West Liberty street, Galnesville, Fla. International Charles A. Pyle, Agril, D. V. M., Veterinary Division, University Farm, St. Paul, Minn. Assistant in veterinary medicine. Elvin Rickman, Gen. S., Tonopah, Nev. Manager of skating-rink.

Jennie Florence Ridenour, D. S., 1738 Buchanna street, Topeka, Kan. Tailoress, Florence Rebecca (R

Orin Russell Wakefield, Gen. S., 352 Sonth Hoyne avenue, Chicago, Ill. Conductor, Metropolitan Elevated Railway System; student, Chicago College of Medicine and Surgery, University of Illinois.

Frank Cooper Webb, Agri., R. F. D. No. 1, Viola, Kan. Farmer.

William Allen Webb, Agri., R. F. D. No. 1, Clearwater, Kan. Farmer.

James Halley Whipple, M. E., 473 Reno avenue, Topeka, Kan. Machinist, Topeka shops, A. T. & S. F. railway.

Orville Blaine Whipple, Gen. S., Grand Junction, Colo. Field agent, Colorado Agricultural Experiment Station.

Emily Jennie (Wiest) Joss, D. S., 1551 North Market street, Wichita, Kan. Housewife. wife.
Robert S. Wilson, Agri., R. F. D. No. 3, Burden, Kan. Farmer and stock-raiser.
Retta Womer, D. S., Ph. C., Womer, Kan. At home. 1905. Harvey Adams, Gen. S., Vigan, Ilocus, Sur., P. I. First lieutenant, Philippines constabulary.

Edward E. Adamson, E. E., 702 Campbell avenue, Schenectady, N. Y. Switchboard draftsman, General Electric Company.

Elva Veola Akin, D. S., Zeandale, Kan. Principal of Riley school.

Pearl Akin, D. S., 830 Moro street, Manhattan, Kan. Graduate student, and teacher of domestic art, Kansas State Agricultural College.

Nellie Wilhelmina (Baird) Hubbard, D. S., Childress, Tex. Housewife.

Walter Raymond Ballard, Agri., College Park, Md. Assistant horticulturist, Maryland Agricultural Experiment Station.

Jessie Mary Ballon, D. S., Delphos, Kan. Stenographer, Girls' Industrial School, Beloit. Beloit. Frank Everett Balmer, Agri., Manhattan, Kan. Graduate student, Kansas State Agricultural College.

Asa William Barnard, M. E., care of Indian Industrial Institute, Weiser, Idaho.
Instructor in manual training and mechanical drawing.

Atwood N. H. Beeman, Gen. S., 613 Grand avenue, Leavenworth, Kan. Proofreader, Dodsworth Book Company.

Herbert F. Bergman, Gen. S., Agricultural College, N. Dak. Assistant professor of botany.

Charles Paul Blachly, E. E., Anderson, Ind. Electrical engineer, Remy Electric Company.

Helen Elizabeth (Bottomly) Lill, D. S., R. F. D. No. 2, Mount Hope, Kan. Housewife.
The street of the street Walter Harvey A. Burt, E. E., 404 West Sixth street, Leadville, Colo. Power plant operator, Leadville Light and Power Company.

Eva Maggy (Burtner) Potter, D. S., 616 Bluemont avenue, Manhattan, Kan. Housewife. erator, Leadville Light and Power Company.

Eva Maggy (Burtner) Potter, D. S., 616 Bluemont avenue, Manhattan, Kan. Housewife.

Ray Arthur Carle, E. E., 121 East Baltimore street, Baltimore, Md. Erecting engineer, Westinghouse Electric and Manufacturing Company.

August Belmont Carnahan, M. E., 16 Mountain avenue, Swampscott, Lynn, Mass. Expert in turbine testing department, General Electric Company.

Albert F. Cassell, Agri., D. V. M., Beverly, Kan. Veterinarian.

Joseph Griffith Chitty, Agri., Bigelow, Kan. Farmer.

L. Ethel Clemons, D. S., Manhattan, Kan. At home.

Mary Margaret Cole, D. S., Manhattan, Kan. Teacher in city schools; graduate student, Kansas State Agricultural College.

Andrew D. Colliver, Agri., Gage, Okla. Hardware and implement merchant.

Mary P. Colliver, D. S., 1061 West Thirty-first street, Los Angeles, Cal. Teacher.

Gertrude Matilda (Conner) Snodgrass, D. S., Lyons, Kan. Housewife.

Forrest Lesile Courter, Agrl., Bellaire, Kan. Pastor Methodist Episcopal church.

Bertha Cowles, D. S., corner East Fifteenth and Denver streets, Kansas City, Mo. Student, Kansas City National Training School for Deaconesses and Misslonaries.

Charles William Cummings, Gen. S., Wilmore, Kan. Farmer.

Jules Cool Cunningham, Agri., Manhattan, Kan. Assistant in horticulture, Kansas State Agricultural College.

Mamie Grace Cunningham, D. S., Fairview, Okla. Assistant in horticulture, Kansas State Agricultural College.

Mainine Estella Deibler, D. S., Manhattan, Kan. A home.

Guy R. Davis, Agri., 2424 Benton boulevard, Kansas City, Mo. Real estate.

Minnie Estella Deibler, D. S., Manhattan, Kan. Assistant in domestic science department,

Kansas State Agricultural College.

Olive B. Dunlap, D. S., 510 West Fourth street, Marion, Ind. Director of domestic science in high school.

Mary Josephine Edwards, D. S., care of F. F. Thompson Hospital.

William K. Evans, Agri., Goodland, Kan. County surveyor and farmer.

Scott Stuart Fay, Gen. S.

Lathrop Weaver Fielding, E. E., 519 West Jefferson street, Jonesboro, Ark. Ma

```
Charles Wesiey Fryhofer, Agri., 109 Mountain View avenue, Nutley, N. J. Federal butter inspector, New York butter market.

Robert Anson Fulton, E. E., 1334 East 124th Place, Cleveland, Ohio. Electrician, Cieveland Electric Illuminating Company.

George W. Gasser, Gen. S., Rampart, Alaska. Superintendent of government experiment station.
        Cleveland Electric Illuminating Company.

George W. Gasser, Gen. S., Rampart, Alaska. Superintendent of government experiment station.

William H. Goodwin, Gen. S., 28 East Larwill street, Wooster, Ohio. Assistant entomologist, Ohio Agricultural Experiment Station.

Herbert Revere Groome, Gen. S., D. V. M., Jewell, Kan. Veterinarian.

Margaret Helen Haggart, D. S., Agricultural College, N. M. Professor of household economics, New Mexico College of Agriculture and Mechanic Arts.

Otto Albert Hanson, Gen. S., Marquette, Kan. Superintendent and manager Ciay Center Light and Power Company.

Loia May (Harris) Burt, D. S., 404 West Sixth street, Leadville, Colo. Housewife. Henry P. Hess, E. E., 2016 Prospect street, Kansas City, Mo. Sales engineer, Western Electric Company, Chicago, Ili.

Frederick Earl Hodgson, E. E., 1524 Palmer street, Philadeiphia, Pa. Electrician, Cramps's ship-yards.

Jessie May Hoover, D. S., Brookings, S. Dak. Preceptress, school of agriculture, chanic Arts Coilege.

Charles Frederick Johnson, Gen. S., R. F. D. No. 2, Leonardville, Kan. Farmer and stock-raiser.

James Henry Johnson, E. E., 304 Seneca street, Leavenworth, Kan. Civil engineer
Charles Frederick Johnson, Gen. S., R. F. D. No. 2, Leonardville, Kan. Farmer and stock-raiser.

James Henry Johnson, E. E., 304 Seneca street, Leavenworth, Kan. Civil engineer and inspector, United States War Department.

Winifred Mae Johnson, D. S., Solomon Rapids, Kan. At home. George Henry Kellogg, Gen. S., Manhattan, Kan. Teacher.

Mildred I. Kirkwood, D. S., Marysville, Kan. Teacher in city schools. George Otto Kramer, Agri., care of Bureau of Agriculture, Manila, P. I. In charge of government quarantine work.

William C. Lane, E. E., Manhattan, Kan. Assistant in electrical engineering department, Kansas State Agricultural College.

Daniel Andrew Logan, Gen. S., 215 East Seventh street, Topeka, Kan. Accountant in district accountant's office, C. R. I. & P. railway.

Edward Logan, Agri., Manhattan, Kan. Senior veterinary science student, Kansas State Agricultural College.

Rhoda C. McCartney, D. S., Oakes, N. Dak. Primary teacher.

Nelile Reeder (McCoy) Cover, D. S., South Ailen avenue, R. F. D. No. 1, Pasadena, Cai. Housewife.

Freida E. Marty, D. S., Merriam, Kan. Teacher of domestic science, Kansas School for the Deaf, Olathe, Kan.

Richard Meyer, Agri., Riley, Kan. Farmer.

Mary Mudge, D. S., Manhattan, Kan. Assistant in library, Kansas State Agricultural College.

Lewis J. Munger, Agri., R. F. D. No. 1, Hollis, Kan. Farmer and stock-raiser.

Rachel Gertrude Nicholson, D. S., Manhattan, Kan. Assistant state entomologist. Luther B. Pickett, Gen. S., Whiting, Kan. Housewife.

Leonard Marion Peairs, Agri., M. S., College Park, Md. Assistant state entomologist. Luther B. Pickett, Gen. S., Whiting, Kan. Horticulturist.

Charles Holcomb Popence, Gen. S., 314 E. Capitol street, Washington, D. C. Agent and expert, bureau of entomology, United States Department of Agriculture, Fanny E. (Reynolds) Fulton, D. S., 1334 East 124th Place, Cleveland, Ohio. House-wife.
  Fanny E. (Reynolds) Fulton, D. S., 1334 East 124th Place, Cieveland, Ohio. Housewife.

Arthur J. Rhodes, M. E., Manhattan, Kan. Civil engineer.

Eva May (Rickman) Glibert, D. S., Eastwood, Neb. Teacher.

Kate L. (Robertson) White, D. S., R. F. D. No. 6, Burlington, Kan. Housewife.

Garfield Shirley, Agri., Eads, Colo. Farmer.

Waiter Emory Smith, Agri., Waverly, Kan.

Crete (Spencer) Fielding, D. S., 519 West Jefferson street, Jonesboro, Ark. Housewife.
     William Wesley Stanfield, Agri., R. F. D. No. 4, Chanute, Kan. Farmer and fruit-
    grower.
Blanche Stevens, D. S., Highland avenue, Anniston, La. Instructor of domestic art,
  Barber Seminary.

Effie L. Stewart, D. S., 308 North Twelfth street, Humboldt, Kan. At home.

Mary Catherine Strite, Gen. S., Cleveland, Okia. Teacher in city schools.

Jessie A. (Sweet) Arnold, D. S., 841 Madison avenue, Grand Rapids, Mich. Housewife.
  wife.
Charles Bartholow Swift, Agri., Williamsburg, Kan. Assistant cashier, Williamsburg State Bank.
Charles L. Thompson, Agri., Etiwanda, Cal. Fruit-grower.
John Bert Thompson, Agri., 328 Maryland avenue, N. W., Washington, D. C. Expert, office of forage crop investigations, United States Department of Agricuiture.
Roger S. Thompson, M. E., 1107 Monroe avenue, Kansas City, Mo. Draftsman.
Claude B. Thummel, M. E., West Point, N. Y. Cadet United States Military Academy.
```

Aionzo F. Turner, Agrl., Norton, Kan. Teacher of agriculture and science, Norton county high school.

Grace E. Umberger, D. S., 18 Lane Place, Chicago, Ill. Graduate nurse, Illinois Training-school for Nurses.

Harry Umberger, Agrl., 328 Maryland avenue, Washington, D. C. Assistant agronomist, bureau of plant industry, United States Department of Agriculture.

Fred Van Dorp, Agrl., R. F. D. No. 8, Topeka, Kan. Farmer.

Rebecca Rees (Washington) Samson, D. S., Quinter, Kan. Housewife.

Earl Wheeler, E. E., Washington barracks, Washington, D. C. Head of electrical and mechanical engineering, engineer school, United States army.

Inez (Wheeler) Westgate, D. S., Lanham, Md. Housewife.

Clarence H. White, Agrl., R. F. D. No. 6, Burlington, Kan. Farmer and stockman. Wayne White, Agrl., R. F. D. No. 5, Burlington, Kan. Farmer and stockman. William J. Wilkinson, Arch., 809 Aileen street, Oakland, Cal. Architect.

Frederick W. Wilson, Agrl., Grand avenue, Phenix, Ariz. Professor of animal husbandry, University of Arizona, Agricultural Experiment Station.

George Heber Wilson, Agrl., R. F. D. No. 8, Winfield, Kan. Farmer and stockmanser, and veterinary practitioner.

George Wolf, E. E., 208 Fifth avenue, New York city. Traveling engineer, Duplex Metals Company.

Grace (Enfield) Wood, D. S., Altamont, Kan. Housewife.

Jay G. Worswick, Gen. S. Died in 1906.

Kate Alexander, D. S., Manhattan, Kan. Teacher.
Albert Clay Aumann, Agri., R. F. D. No. 4, Arkansas City, Kan. Farmer.
Jesse N. Bealey, Agri., Wheatland, Wyo. Irrigation farmer.
Raymond Russell Birch, Agri., Bureau of Agriculture, Manila, P. I. Specialist in animal industry, insular bureau of agriculture.
Herbert Joseph Bottomly, Agri., Cedar, Kan. Miller.
F. Edna Brenner, Gen. S., Manhattan, Kan. Teacher.
Byron Broom, Gen. S., E. 1418 Courtland avenue, Spokane, Wash. Teacher of manual arts, South Central high school.
Frank E. Brown, E. E., 118 North Washington street, Enid, Okla. Night foreman, Enid City Street Railroad Company.
John Willard Calvin, Gen. S., 512 West College avenue, State College, Pa. Assistant chemist, Institute of Animal Nutrition, Pennsylvania State College.
Stella (Campbell) Thurston, D. S., Seneca, Kan. Housewife.
Will Ward Campbell, Gen. S., Lloydminster, Saskatchewan, Canada. Farmer.
Torje Carlson, E. E., care of superintendent of telegraph, Santa Fe system, Topeka, Kan. Electrical engineer.
James Hamilton Cheney, Agri., D. V. M., 1211 Tenth street, Great Bend, Kan. Veterlnarian.
Edith Ellen Coffman, D. S., Indian School, Hayward, Wis. Seamstress.
William Irving Coldwell, E. E., 801 Franklin avenue, Wilkinsburg, Pa. In testing department Westinghouse Electric and Manufacturing Company.
W. Archie Conner, Agrl., R. F. D. No. 6, Lyons, Kan. Farmer and stock-ralser.
Jessel Leona (Travis) Cook, D. S., Oakley, Kan. Housewife.
Perry Alfred Cooley, Gen. S., Manhattan, Kan. Private secretary to president, Kansas State Agricultural College.
Ruth Cooley, Gen. S., Manhattan, Kan. Clerk in post-office, Kansas State Agricultural College.
Winlfred Anna Dalton, Gen. S., St. George, Kan. At home.
Charles Ernest Davis, E. E., 683 Second avenue, Detroit, Mich. Assistant to manager tural College.

Winlfred Anna Dalton, Gen. S., St. George, Kan. At home.
Charles Ernest Davis, E. E., 683 Second avenue, Detroit, Mich. Assistant to manager
of General Electric sales office.

Jay L. Dow, E. E., 1002 First avenue, Maywood, Ill. Telephone engineer, Western
Electric Company.
Odessa Della Dow, D. S., Manhattan, Kan. Teacher.
Arthle Alleen Edworthy, D. S., Rainy Mountain School, Gotebo, Okla. Boys' matron,
Indian school.
Leonard Roscoe Eider, E. E., 5 Eagle street, Schenectady, N. Y. Commercial engineer, General Electric Company.
Harriet Marie Esdon, Gen. S., Chase City, Va. Teacher of domestic sclence, Thyne
Institute. Harriet Marie Esdon, Gen. S., Chase City, Va. Teacher of domestic science, Thylie Institute.

Earl Joy Evans, Arch., 1107 Nevada street, El Paso, Tex. Assistant mill superintendent, El Paso Sash and Door Company.

Smith Faris, M. E., Cawker City, Kan. Automobile and machine repair shop.

Arba C. Ferris, E. E., Syracuse, Kan. Manager and partner, Syracuse Telephone Company.

M. Edith Forsyth, D. S., Dwight, Kan. At home.

Charies A. Gilkison, Agri., R. F. D. No. 2, Larned, Kan. Farmer and stockman.

William Thomas Gilliford, E. E., 902 Estes avenue, Chicago, Ill. Chief tester, Rogers Park Exchange, Chicago Telephone Company.

Lewis M. Graham, E. E., 5 Eagle street, Schenectady, N. Y. Electrical tester, General Electric Company.

Laurenz Greene, Gen. S., Ames, Iowa. Instructor in horticulture, Iowa State College. Elbert Ernest Greenough, Agri., Urbana, Ohio. Dairyman.

David H. Gripton, Agri., R. F. D. No. 3, Smith Center, Kan. Farmer. Roswell Leroy Hamaker, M. E., 802 Franklin street, Wilmington, Del. Mechanical Roswell Leroy Hamaker, M. E., 802 Franklin street, Wilmington, Del. Mechanical engineer.

Mary L. Hamilton, D. S., 2601 Q street, Lincoln, Neb. Teacher of domestic science in city schools.

Boline Hanson, D. S., R. F. D. No. 1, Jamestown, Kan. Teacher. Daisye Ina Harner, D. S., 341 Princess Anne avenue, Norfolk, Va. Professor of domestic science, Norfolk Mission College.

Raymond D. Harrison, Agri., Jewell, Kan. Farmer.

Milo M. Hastings, Gen. S., 7 East 41st street, New York city. Industrial writer. Clarence L. Hawkinson, Gen. S., Marquette, Kan. Wiring for A. T. & S. F. railway. Leslie Eugene Hazen, Agri., R. F. D. No. 3, box 54, Centralia, Kan. Farmer. Harry Russell Heim, E. E., 936 Metropolitan Life building, Minneapolis, Minn. Salesman, Westinghouse Electric and Manufacturing Company.

Gertrude Elma (Hole) Campbell, Gen. S., 1511 West street, Topeka, Kan. Housewife. Gertrude Elma (Hole) Campoell, Gen. S., 1911 West Street, Topeaa, Ran. wife.

Nellie Dorothy (Hughes) Rodell, D. S., Manhattan, Kan. Housewife.

Helen C. Inskeep, D. S., R. F. D. No. 7, Manhattan, Kan. At home.

Charles Sumner Jones, Agri., R. F. D. No. 4, Montgomery, Ala. Farmer and stock-Fredric Arthur Kiene, Agri., Valencia, Kan. Farmer. Clarence Brady Kirk, Gen. S., R. F. D. No. 3, Burr Oak, Kan. Farmer and stockraiser.

Laura Lillian Lyman, D. S., 43 North First street, Kansas City, Kan. Director of domestic science in Bethel Mission.

Charles Wilbur McCampbell, Gen. S., Manhattan, Kan. Veterinary student, Kansas State Agricultural College.

Cora E. McNutt, D. S., 623 Jackson street, Topeka, Kan. General secretary Young Women's Christian Association.

Alma McRae, D. S., Indian School, Flandreau, S. Dak. Teacher of domestic science in Indian school.

Ernest Wilson Matherly, Gen. S., R. F. D. No. 3, Madison, Kan. Teacher and farmer. in Indian school.

Ernest Wilson Matherly, Gen. S., R. F. D. No. 3, Madison, Kan. Teacher and farmer.

Henry Greenleaf Maxwell, Agri., 37 East Poplar avenue, Columbus, Ohio. Student veterinary college, Ohio State University.

Caroline Morton, D. S., 1100 West street, Topeka, Kan. Teacher in city schools. Verda Ellen (Murphy) Hudson, Gen. S., Manhattan, Kan. Housewife.

Ruth Emma Neiman, D. S., White Water, Kan. At home.

Ross N. Newland, M. E., care of York Manufacturing Company, York, Pa. Erecting engineer for York Manufacturing Company.

Henry Otto, Gen. S., Manhattan, Kan. Law student.

John J. Peckham, E. E., 936 West Adams street, Chicago, Ill. Electrical engineer.

Martha S. Pittman, D. S., Chilocco, Okla. Teacher of domestic science in Indian agricultural school.

Lester Allen Ramsey, M. E., care of York Manufacturing Company, York, Pa. Erecting engineer, York Manufacturing Company.

Richard Reece, E. E., Beacon, Mich. Principal, Champion high school.

Jessie A. Reynolds, D. S., Manhattan, Kan. Assistant in preparatory department, Kansas State Agricultural College.

Emmit D. Richardson, M. E., Cawker City, Kan. Machine shop and automobile supplies. Emmit D. Richardson, M. E., Cawker City, Kan. Machine shop and automobile supplies.

Jennie Inez (Ritner) Smith, D. S., Manhattan, Kan. Housewife.

Ramer Henry Senneman, Arch.

William Paul Schroeder, Agri., Enid, Okla. Creamery operator, Continental Creamery Company.

Martin Roy Shuler, Agri., Effingham, Kan. Science teacher, Atchison county high school.

Emily G. (Smith) Skinner, D. S., 1542 New Hampshire street, Lawrence, Kan. Housewife. Milton David Snodgrass, Agri., Kodiak, Alaska. Superintendent Kodiak Breeding Station. Mabelle Julie (Sperry) Hennessy, D. S., Marysville, Kan. Teacher of languages in Station.

Mabelle Julie (Sperry) Hennessy, D. S., Marysvine, Man.
high school.

George A. Spohr, Gen. S., 1327A Troost avenue, Kansas City, Mo. Junior student,
Kansas City Dental College, and salesman for Kansas City Electric Light
Company.

Wen Housewife. Kansas City Denial College, and salesman for Kansas City Electric Light Company.

Julia C. (Spohr) Heath, Gen. S., Peabody, Kan. Housewife.

Henry Adam Spuhler, Arch., 2530 Cleveland avenue, Kansas City, Mo. Architect. Albert D. Stoddard, E. E., 610 West Seventeenth street, Kansas City, Mo. Electrician, Metropolitan Street-railway Company.

Ernest Felix Swanson, Gen. S., 122 East Ninth street, Concordia, Kan. Bookkeeper in Cloud County Bank.

Elbert Wren Thurston, E. E., 1002 First avenue, Maywood, Ill. With Western Electric Company.

Warren Bunn Thurston, Agrl., Seneca, Kan. Manager, Seneca Creamery and Cold Storage Company.

Doris M. (Train) Stewart, Gen. S., Plattsburg, Ohio. Housewife.

Marcia Elizabeth Turner, D. S., 719 Bluemont avenue, Manhattan, Kan. Editor of The Alumnus, and graduate student, Kansas State Agricultural College.

Warren Elmer Watkins, Agri., Anthony, Kan. Farmer.

Chauncey Iles Weaver, E. E., 706 Phoenix building, Minneapolis, Minn. Commercial department, General Electric Company.

Ralph Richard White, E. E., 415 East San Raphael street, Colorado Springs, Colo. Assistant chief electrical engineer of Colorado Springs Electric Company. Thomas F. White, Gen. S. Bdgar M. Wilson, E. E. Charles H. Withington, Gen. S., M. S., University of Kansas, Lawrence, Kan. Assistant, systematic entomology, University of Kansas. Thomas M. Wood, E. E., Altamont, Kan. Principal, Labette county high school. Edith Worden, D. S., box 484, Idaho Springs, Colo. Director of domestic science, Plummer manual-training school. Earnest A. Wright, E. E., care of Steam and Electrical Department, Allis-Chalmers Company, Milwaukee, Wis. Electrical estimating engineer, Allis-Chalmers Company. Walter Scott Wright, Gen. S., Stewart, Nev. Teacher of agriculture, Carson Indian school. school. Guy E. Yerkes, Agri., 801 North Monroe street, Hutchinson, Kan. Market-gardener. Ernest L. Adams, Agri., Philbrook, Mont. Grain investigations, United States Department of Agriculture.

Lizzie Bea Alexander, D. S., Manhattan, Kan. Office assistant in botanical department, Kansas State Agricultural College.

Cecile Allentharp, D. S., 704 South Jasper avenue, Casey, Ill. At home.

Alfred Henry Baird, Agri., Minneapolis, Kan. Farmer.

Ethel R. Barber, Gen. S., 1022 Fremont street, Manhattan, Kan. Teacher in city schools. Alfred Henry Baird, Agri., Minneapolis, Kan. Farmer.

Ethel R. Barber, Gen. S., 1022 Fremont street, Manhattan, Kan. Teacher in city schools.

Charles Earle Bassler, Vet. S., D. V. M., Greensburg, Kan. Veterinary practitioner. Julia Susanna Bayles, D. S., R. F. D. No. 4, Manhattan, Kan. Teacher.

Ethel Esther Berry, D. S., Oklahoma City, Okla. Young Women's Christian Association work.

Clare Biddison, D. S., Manhattan, Kan. Teacher in music department, Kansas State Agricultural College.

Roy C. Bowman, M. E., Cherokee, Kan. Assistant principal, Crawford county high school Clare Biddison, D. S., Manhattan, Kan. Teacher in music department, Kansas State Agricultural College.

Roy C. Bowman, M. E., Cherokee, Kan. Assistant principal, Crawford county high school.

Henry W. Brinkman, Arch. 619 Commercial street, Emporia, Kan. Architect. Fred Wallace Caldwell, Vet. S., D. V. M., Wamego, Kan. Veterinary surgeon.

Albert Francis Cassell. Vet. S., D. V. M., Beverly, Kan. Veterinary surgeon.

Robert Archer Cassell. E. E., Manhattan, Kan. Electrical engineer.

James Hamilton Cheney Vet. S., D. V. M., 1211 Tenth street, Great Bend, Kan. P. Commonwealth Edison Company.

Let S. Clarke, Gen. S.

Amy Cole, D. S., Manhattan, Kan. Teacher.

Hermon H. Conwell, E. E., 419 South Edith street, Albuquerque, N. M. Assistant professor of mathematics in State University.

Mrs. Ida E. Cook, D. S., R. F. D. No. 1, Effingham, Kan. Housewife. Jerome Barl Cooley, E. E., Jonesboro, Ark. With Home Telephone Company.

Allan Elizabeth Cooper, Gen. S., Manhattan, Kan. At home.

Bernard C. Copeland, Agri., Idana, Kan. Farmer.

Alson J. Cowles, E. E., 469 Sixty-ninth avenue, West Allis, Wis. Experimental electrical tester, Allis-Chalmers Company.

Edgar Andrew Cowles, M. E., R. F. D. No. 2, El Dorado, Kan. Farmer.

Ethel Cowles, D. S., Vinland, Kan. At home.

James R. Coxen, E. E., 110 North Sixth street, Goshen, Ind. Instructor in mechanical drawing, Goshen high school.

Everett William Cudney, Agri., Belpre, Kan. Farmer.

William L. Davis, Agri., room- 208, Occidental building, Albuquerque, N. M. In quarantine service, bureau of animal industry, United States Department of Agriculture.

Marshal Elsas, E. E.

Marshal Elsas, E. E.

Lois Failyer, Gen. S., Gare of Industrial Institute, La Fayette, La. Teacher of domestic science and art.

Stella May Finlayson, D. S., Tulsa, Okla. Teacher in city schools.

Anna Helen Foster, D. S., Manhattan, Kan. Teacher in Cather in Cathery of Company.

May Lucetta (Griffing) Cycle School, New Farmer.

Frank W. Grabendike, E. E., 619 Bast Elm street, Champaign, Ill. Graduate student,

Flora May Hull, D. S., Wichita, Kan. Lunch-room secretary, Young Women's Christian Association.

Kate May (Hutchinson) Streeter, D. S., R. F. D. No. 4, Wakefield, Kan. Housewife. Irene Ingraham, D. S., Manhattan, Kan. Graduate student, Kansas State Agricultural College. Harry A. Ireland, Agri., care of Bureau of Agriculture, Manila, P. I. Agricultural inspector, in charge of Singaiong Experiment Station, Malate, P. I. Louis M. Jorgenson, E. E., Goshen, Ind. Instructor in mathematics, Goshen high Louis M. Jorgenson, E. E., Goshen, Ind. Instructor in mathematics, Goshen high school.

Miner M. Justin, Agri., Manhattan, Kan. Farmer.
Clara Myrtie Kahl, D. S., Manhattan, Kan. Office assistant in dairy hushandry department, Kansas State Agricultural College.
Grover Cieveland Kahl, E. E., 30 Elder street, Schenectady, N. Y. Assistant foreman, experimental turhine engineering test, General Electric Company.

Mary Kimball, D. S., 601 Manhattan avenue, Manhattan, Kan. At home.
Edward Rudolph Kapper, M. E., 511 Spofford avenue, San Antonio, Tex. Constructing engineer for Ling & Hughes, general contractors.

Clarence Lambert, Agri., Oxnard, Cal. Ranchman.

Lorin Wendeil Lawson, E. E., 459 Sixty-fourth avenue, West Allis, Wis. Student apprentice, Allis-Chaimers Company.

Adah Lewis, D. S., Manhattan, Kan. Graduate student, Kansas State Agricultural College.

Gertrude E. Lill, Gen. S., 111 Eleventh street west, Hutchinson, Kan. Assistant Adah Lewis, D. S., Manhattan, Kan. Graduate student, Kansas State Agricuitural College.

Gertrude E. Lill, Gen. S., 111 Eleventh street west, Hutchinson, Kan. Assistant principal of Council Grove high school.

Percy E. Lill, Gen. S., R. F. D. No. 2, Mount Hope, Kan. Farmer.

Fred R. Linsey, E. E., 244 Green street, Schenectady, N. Y. In testing department, General Electric Company.

James A. Lupfer, E. E., 802 Franklin avenue, Wilkinshurg, Pa. Apprentice, Westinghouse Electric and Manufacturing Company.

Edwin Louis McClaskey, M. E., Manhattan, Kan. Teacher in mechanical engineering department, Kansas State Agricultural College.

Edwin William McCrone, Vet. S., D. V. M., Haddam, Kan. Veterinary surgeon.

Ethel McDonald, D. S., 417 Fremont street, Manhattan, Kan. At home.

Carl E. Mallon, E. E., Manhattan, Kan. Traveling salesman, C. Hoffman & Son Milling Company.

Ellia M. Meyer, D. S., Riiey, Kan. Teacher.

James Arthur Milham, Agri., Hays, Kan. Assistant in animal hushandry, Fort Hays Eranch Experiment Station.

Frederick Carl Miller, Agri., Belvue, Kan. Farmer and stockman.

Atsushi Miyawaki, Agri., Manhattan, Kan. Graduate student and assistant in dairy husbandry department, Kansas State Agricultural College.

Joseph Shaw Montgomery, Agri., Santiago de las Vegas, Cuba. Assistant in animal husbandry in experiment station.

Leona Estel Moore, Gen. S., Manhattan, Kan. Cashier, E. B. Purcell Trading Company. Leona Estel Moore, Gen. S., Mannattan, Man.
pany.

Edward Aiien Morgan, Agri., R. F. D. No. 3, White Water, Kan. Farmer.
Ciarence G. Nevins, Gen. S., Ford, Kan. Hardware and implement merchant.
Bessie Minerva Nicolet, Gen. S., Manhattan, Kan. Assistant in department of music,
Kansas State Agriculturai College.
Amer B. Nystrom, Agri., 161 West Tenth avenue, Columbus, Ohio. Instructor in
dairying, Ohio State University.
Ole J. Olsen, Agri., Baker, Kan. Farmer and stock-raiser.
Harry G. F. Oman, Agri., R. F. D. No. 1, Leonardville, Kan. Farmer and stockraiser. raiser.
Burton Sylvester Orr, M.E., Manhattan, Kan. Draftsman, mechanical engineering department, Kansas State Agricultural College.
Joseph W. Painter, Gen. S. Died in 1907.
Jesse Leroy Peiham, Agri., R. F. D. No. 4, Hutchinson, Kan. Superintendent, the Underwood orchards.
Allen G. Philips, Agri., Manhattan, Kan. Assistant in poultry, Kansas State Agricultural College.
Harrison E. Porter, Arch., Manhattan, Kan. Assistant in mathematics, Kansas State Agricultural College.
Adeiine Poston. D. S. Harrison E. Forter, Arch., Manhattan, Man.

State Agricultural College.

Adeline Poston, D. S.
George Percivai Potter. Agri., Peabody, Kan. Stockman.

Charles A. Pyle, Vet S., D. V. M., Veterinary Division, University Farm, St. Paul,

Minn. Assistan in veterinary medicine.

Elizaheth Randle, D. S., Jiley, Kan. Teacher.

Luiu Mahala Ranneiis, D. S., 500 Pierre street, Manhattan, Kan. At home.

Hiram R. Reed, Agril. Comerative Experiment Station, Garden City, Kan. Expert,

hureau of plant industry, United States Department of Agriculture.

Edward C. Richards, M. E., Manhattan, Kan. Student, Kansas State Agricultural

Coliege.

James C. Richards, M. E., 903 Mitchell avenue, St. Joseph, Mo. Salesman for the

C. Hoffman Milling Company.

Donald Ross, M. E., 208 South Sixth street, Independence, Kan. With the Independent Paper Company.

Don Michael Ryan, Agril, Muscotah, Kan. Farmer and stock-raiser.

Edwin George Schafer, Agril, Manhattan, Kan. Assistant in agronomy department,

and graduate student, Kansas State Agricultural College.

Walter Theodore Scholz, M. E., 607 Kansas avenue, Frankfort, Kan. Mannger,

Frankfort Telephone Company.

Martin William Schottler, E.E., 222 Exchange street, Emporia, Kan. Electrical contractor.

Earle Locke Shattuck, M. E., 510 Mississippi avenue, Ruston, La. Assistant in mathematics and mechanical engineering, Louisiana Industrial Institute.

Wilson George Shelley, Agri., Akron Substation, Akron, Colo. Scientific assistant, bureau of plant industry, United States Experiment Station.

Perle Harrison Skinner, Arch., 1630 Leavenworth street, Manhattan, Kan. Architect Perle Harrison Skinner, Arch., 1630 Leavenworth street, Mannattan, Kan. Architect and builder.

Frank Sorgatz, M. E., 341 Eighteenth street, San Diego, Cal. With San Diego Electric Railway Company.

Maurice I. Stauffer, E. E., Randall, Kan. Farmer.

Orin A. Stevens, Agri., Manhattan, Kan. Assistant in Botanical Department, Kansas State Agricultural College.

Claudius Stewart, E. E., 207 South Wood street, Chicago, Ill. Tester, Automatic Electric Company.

Grace Elizabeth (Streeter) Smith, D. S., Wellington, Kan. Housewife.

Lyman Bradley Streeter, Agri., R. F. D. No. 4, Wakefield, Kan. Farmer and stockraiser. Lyman Bradley Streeter, Agrl., R. F. D. No. 4, Wareneld, Kan. Farmer and stockraiser.

Bertha Florence (Sweet) Evans, D. S., 1107 Nevada street, El Paso, Tex. Housewife. S. Ray Tilbury, M. E., Grand Canyon, Ariz. Assistant engineer, A. T. & S. F. power plant.

Anna Rhea Tolin, D. S., Soldier, Kan. At home.

Virginia Troutman, Gen. S., Los Angeles, Cal. Student.

May E. Umberger, D. S., 2311 West Main street, Farsons, Kan. Teacher of domestic science and art, and assistant instructor in English, Parsons high school; supervisor of domestic art in the grades.

Josephine Elizabeth (Walter) Skinner, D. S., 1630 Leavenworth street, Manhattan, Kan. Housewife.

Merton Luther Walter, Agri., R. F. D. No. 3, Selden, Kan. Farmer and breeder of pure-bred stock.

Catherine Niesz (Ward) George, D. S., R. F. D. No. 2, Capron, Okla. Housewife.

Albert A. Werner, Agri., Etiwanda, Cal. Farmer.

Georgiana (West) Allen, D. S., Tampico, Vera Cruz, Mex. Housewife.

Helen Clara Westgate, D. S., 1020 Osage street, Manhattan, Kan. At home.

Robert E. Williams, Agri., D. V. S., Wichita Falls, Tex. Veterinary surgeon.

Jessie Patience Allen, D.S., Manhattan, Kan. In printing department, Kansas State Agricultural College.
Eva Irene (Alspaugh) Zercher, D.S., 1902 Matamoras street, Laredo, Tex. Housewife. Marie Rilda Bardshar, D. S., 1931 Melpomene street, New Orleans, La. Teacher of domestic art in Italian mission.
Ernest Elmer Beighle, Arch., care of Arthur Harshburger, R. F. D. No. 1, Atwood, Ill.
Hulda L. J. Bennett, D. S., 717 Fremont street, Manhattan, Kan. Clerk in E. A. Wharton's store.
George P. Berger, E. E., R. F. D. No. 6, Abilene, Kan. Electrician, Electric Light and Power Plant.
Edna Eleanor Biddison, Gen. S., White Cloud, Kan. Principal of high school.
Horace E. Bixby, E. E., Topeka, Kan. Traveling electrician, A. T. & S. F. railway.
Mabel J. Bower, D. S., Manhattan, Kan. At home.
Raymond W. Brink, Gen. S., Manhattan, Kan. Student, Kansas State Agriculturai College. Mabel J. Bower, D. S., Manhattan, Kan. At home.
Raymond W. Brink, Gen. S., Manhattan, Kan. Student, Kansas State Agricultural College.
James E. Brock. Agri., Troy, Kan. Principal of high school.
Ruby Mildred Buckman, D. S., Conway, Kan. At home.
Eimer A. Bull, Arch., Redding, Cal. Smelterman, Balaklala Consolidated Copper Company, Coram. Cal.
Ralph Eimer Caldwell, Agrl., 233 North Market street, Wooster, Ohio. Assistant in animal husbandry. Ohio Agricultural Experiment Station.
Walter W. Carlson, M. E., Bozeman, Mont. Instructor in mechanical engineering, Montana State College of Agriculture and Mechanic Arts.
Wayne Bea Cave, Gen. S., 1287 Lane street, Topeka, Kan. Traveling salesman.
Ralph Thompson Challender, M. E., Kansas Industrial Reformatory, Hutchinson, Kan. Instructor in manual training, Kansas Industrial Reformatory, Hutchinson, Kan. Instructor in manual training, Kansas Industrial Reformatory.
Esther Evangeline Christensen, D. S., Randolph, Kan. Teacher.
Katherine (Cooper) Dial, D. S., Cleburne, Kan. Housewife.
Alexander B. Cron, Agri., 129 Fourth street, S. E., Washington, D. C. Assistant in grain standaradization, bureau of plant industry, United States Department of Agriculture.
Sol. Whitney Cunningham, Agri., care of Y. M. C. A., Omaha, Neb. Office secretary, Y. M. C. A.
Bernice Ada Deaver, Gen. S., Cassoday, Kan. Teacher.
Maxwell C. Donley, E. E. Electrical engineer.
Charles Doryland, Agri., Manhattan, Kan. Graduate student, Kansas State Agricultural College.
Florence Edith Dresser, D. S., Manhattan, Kan. Manager, Home Telephone and Electric Company.
Mary Amy Elder. D. S., Council Grove, Kan. Teacher of German, Council Grove high school.

```
Louise Fleming, D. S., Mankato, Kan. Vice-principal, Mankato high school.
Carl Forsberg, E. E., 930 Fremont street, Manhattan, Kan. Electrical engineer in
electrical engineering department, Kansas State Agricultural Coilege.
Mary Eliza Gaden, D. S., Manhattan, Kan.
David Emerson Gall, Vet. S., D. V. M. Veterinary surgeon.
Erma Gammon, D. S., Ramah, Colo. At home.
Clarence T. Gibbon, E. E., D. & I. suhstation, Boulder, Colo. Manager substation, D.
& J. R. R. Co.
Erma Gammon, D. S., Ramah, Colo. At home.
Clarence T. Gibbon, E. E., D. & I. suhstation, Boulder, Colo. Manager substation, D. & I. R. R. Co.
Oliver Holmes Gish, Gen. S., Marysville, Kan. Teacher of mathematics and physics in high school.
George G. Goheen, E. E., 3327 Armour avenue, Chicago, Ill. Student, Armour Institute of Technology.
Cecile Agnes Graham, D. S., Manhattan, Kan. Teacher.
J. Olin Graham, Gen. S., Floyd, Tex. Cotton ginner.
Edna Gertrude Grizzell, D. S., Claffin, Kan. At home.
Helen Hay Halm, D. S., 120 North Fifteenth street, Corsicana, Tex. Teacher of domestic science and art in high school.
Dora Inez Harlan, Gen. S., Central City, Neb.
Teacher of science and mathematics in high school.
  domestic science and art in high school.

Dora Inez Harlan, Gen. S., Central City, Neb. Teacher of science and mathematics in high school.

Frank Clyde Harris, Arch., 616 Osage street, Manhattan, Kan. City engineer of Manhattan: county surveyor of Riley county.

Maude (Harris) Gaston, D. S., Homewood, Ill. Housewife.

Thomas Powell Haslam, Gen. S., 1605 Tennessee street, Lawrence, Kan. Graduate student and teacher, Kansas State University.

Elizabeth F. Hassebroek, D. S., Manhattan, Kan. Graduate student, Kansas State Agricultural College.

Fred M. Hayes, Vet. S., D. V. M., Manhattan, Kan. Assistant in veterinary science, Kansas State Agricultural College.

Leon George Hoffman, E. E., Yocemento, Kan. Chief electrician for U. S. P. C. Company.

Edith Antonette Holmberg, D. S., Hector, Minn. Teacher.

Annice Howell, D. S., North Topeka, Kan. At home.

Raiph W. Hull, Agri., Shady Bend, Kan. Farmer.

Helen Knostman Huse, D. S., 515 Humboldt street, Manhattan, Kan. Graduate student, Kansas State Agricultural College.

Estella May Ise, D. S., 718 North Elliott street, Lawrence, Kan. Teacher.

Elmer Johnson, M. E., Manhattan, Kan. In mechanical engineering department, Kansas State Agricultural College.

Edward Mervyn Johnston, Agrl., 961 East State street, Ithnca, N. Y. Graduate student, Cornell University.

John Seneca Jones, Gen. S., Norton, Kan. Teacher of sciences in Norton county high school.

Edith B. Justin, D. S., Beloit, Kan. Officer in domestic science department, State Industrial School for Girls.

Maude Kelly, D. S., 1326 Quindaro boulevard, Kansas City, Kan. Teacher of domestic science in Christian College, Columbia, Mo.

Almira Elnora Kerr, D. S., 121 Bull street, Charleston, S. C. Teacher of domestic science.

Venus Kimble, D. S., Keats, Kan. At home.
            venus Kimble, D. S., Keats, Kan. At home.
Arthur W. Kirby, E. E., Independence, Kan. Electrician for Kansas Natural Gas
Company.
Orville M. Kiser, Agri., Canby, Minn. Teacher of agriculture and manual training
          Orville M. Kiser, Agri., Canby, Minn. Teacher of agriculture and mandat standing in high school.

Eisie Kratzinger, D. S., 115 Normal avenue, Carbondale, Ill. Teacher of domestic science in city schools.

Carl C. Long, E. E., 619 West Johnston street, Madison, Wis. Graduate student, University of Wisconsin.

William Thomas McCall, Agri., Manhattan, Kan. Manufacturer of agricultural interpretation.
      University of Wisconsin.
William Thomas McCall, Agri, Manhattan, Kan. Manufacturer of agricultural implements.

Faye Gertrude McConnell, D. S., Manhattan, Kan. Graduate student, Kansas State Agricultural College.
Olive R. McKeeman, D. S., Manhattan, Kan. Teacher in preparatory department, Kansas State Agricultural College.
Ethel Olive McKeen, D. S., Russell, Kan.
Frederic B. McKinnell, M. E., Manhattan, Kan. Traveling salesman for The International Harvester Company of America.
Harry Charles McLean, E. E., Manhattan, Kan. Graduate student, Kansas State Agricultural College.
Henry Alexander McLenon, Agri., Monrovia, Kan. Farmer.
Vincente G. Manalo, M. E., Lemery, Batangas, P. I. Teacher.
Phillip Edward Marshall, E. E., 217 East Eighth avenue, Topeka, Kan. Electrician.

Ethel Madge Martin, Gen. S., Mound City, Kan. At home.
Jessie Lou Marty, D. S., 1230 Amsterdam avenue, New York city. Student, Teachers' College, Columbia University.
George A. Moffatt, M. E., 1730 Houston street, Manhattan, Kan. Carpenter.
Harry H. Momyer, E. E., 905 Stone street, Great Bend, Kan. Electrician.
Orr O. Morrison, Agri., Albuquerque, N. M. Live-stock inspector, bureau of animal industry, United States Department of Agriculture.
Charlotte Augusta Morton, D. S., Hill City, Kan. Teacher in city schools.
Edna Anna Munger, D. S., R. F. D. No. 8, Manhattan, Kan. Teacher.
Jacob Michael Murray, Vet. S., D. V. M., 138 North Lawrence avenue, Wichita, Kan.
```

Lucy Needham, Gen. S., Rantoui, Kan. Teacher.
Arthur Alexander Raymond Perrin, E. E., 3327 Armour avenue, Chicago, Ili. Student, Armour Institute of Technology.
John Buell Peterson, Agri., R. F. D. No. 7, Whitia, Kan. Farmer.
Marcia Pierce, D. S., 626 West Sixth street, Junction City, Kan. At home.
Herman Herman G. E. E., 623 Mitchell avenue, St. Joseph, Mo. Saiesman, C. Hoffman Milling Company, of Enterprise, Kan.
Genevleve Louise Riddie, Gen. S., Sailisaw, Okia. Instructor in science in high school.
Blanche Robertson, D. S., Manhattan, Kan. Record clerk, secretary's office, Kansas State Agricultural College.
Clara Dorothy Schild, Gen. S., Manhattan, Kan. Teacher in city schools.
Jay Waren Simpson, E. E., Bureau of Education, Manila, F. I. Employed in Bureau of Education.
Hallie M. Smith, D. S., 815 Poyntz avenue, Manhattan, Kan. At home.
Jay Latimer Smith, Agri., 1286 Lincoin street, Topeka, Kan. Traveling salesman, Margaret Grace Smith, D. S., 423 Laramie street, Manhattan, Kan. Deputy clerk crimary surgent.
Martin G. Smith, Vet. S., D. V. M., 120 East Lincoin street, Wellington, Kan. Veterinary surgen.
Arthur R. Snapp, Agri., R. F. D. No. 5, Belleville, Kan. Farmer and stockman.
Herbert D. Strong, E. E., 1412 North Boulevard, Childress, Tex. Electrician, F. W. & D. C. railway.
Daniel Charles Sullivan, Gen. S.
Helen Louise Sweet, D. S., Hampton, Iowa. City librarian.
Baymong, E. E., 1412 North Boulevard, Childress, Tex. Electrician, France and Stockman, Herbert D. Strong, E. E., 1492 Stationer Charles, Smith, D. S., 4002 Baitinore Charles, and Philadelphia, N. Y. General Redwin Springer Tart. Agri., Vermillon, S. Dak. General secretary Y. M. C. A., University of South Dakota.
Raymond, D. S., Chapman, Kan. At home.
Maude E. Teagarden, D. S., 4002 Baitinore Charles, Charles and Philadelphia.
Raymond, Charles, Charle

Note.—The course in which the student graduated has been designated, beginning with the year 1900, by the following abbreviations: Gen. S., Generai Science; Agri., Agricuiture; Arch., Architecture; E. E., Electrical Engineering; M. E., Mechanical Engineering; Vet. S., Veterinary Science; D. S., Domestic Science.

SUMMARY.

The number of graduates up to 1909 is 1454, of whom 553 are women. Graduates previous to 1877 pursued, with two exceptions, a classical course, and received the degree of bachelor of arts. Since 1877, all have received the degree of bachelor of science, after a four-year course in the sciences, with good English training. Beginning with the year 1906, graduates from the veterinary science course have been granted the degree of D. V. M.

Of the 901 men, 50 are dead, and the remainder are reported in the following occupations:

Farmers, stock-ralsers and dairymen	180 3
Farm foremen Fruit-growers, nurserymen, gardeners, and florists	26 4
Creamerymen Professors and assistants in agricultural colleges and experiment stations Regent, Kansas State Agricultural College.	66
Professors and instructors in colleges	20 44
Superintendents and teachers in public schools	27
Teachers and employees in Indian service	8 11
Cadet, United States Military Academy	1 16
Graduate and special students, Kansas State Agricultural College	$\frac{12}{12}$
Veterinary surgeons	39 12
Lawyers. District judges.	$\frac{26}{2}$
Sate and county officials. Postmasters and assistants. Officials and managers.	5 45
Contractors, architects and builders Draftsmen.	20 12
Civil, electrical, mining and mechanical engineers	105
Manufacturers. Miners.	333
Millers	18
Bankers and cashiers.	15 31
Commercial travelers. Ministers, missionaries and secretaries of Y. M. C. A	14 19
Journalists and editors	19 14
Railroad agents. Director of physical training.	2 1 1
Lecturer. Unknown.	25
Total	887 36

234 KANSAS STATE AGRICULTURAL COLLEGE.

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Pro	ess	ors	ภทส	ms	Trize	tors	nn a	olleg yslca	29															- 5
Pru	ıcıp	ais :	and	tea	cher	s in	pub	lic so	choc	ols.														76
In I	Jni	ted :	Stat	es l	Depa	rtme	ent :	of Ag	rric	ultu	re	and	l In	dia.	n s	PV	ice.							7
Gra	dua len	te a ts ir	nd s uoth	pec er	cial s educ	stude atio	ents nal	, Kai insti	isas tuti	s St	a te	Ag	rici	ıltı	ıral	Co	lleg	е.	• • •	• •	••	• •	• • •	8 12
Phy	sici	ans,	me	dica	al sti	uden	its a	nd d	rug	gist	s													6
Jou	rna	lists											. .											
Boo	kke	eper	s, si	tene	ograj	pher	s ar	d cle	rks															20
Mer	cha nt.	nt.	• • •	• • •	• • • •				: : :		 			• •	• • •	 		• • •		• •			• • •	. 1
Tele	ph	one	exch	an	ge															٠.		٠.		. 1
Sec	reta	ries	of ?	Z. 1	w. c	. A.																		. 3
								: : : :																
																								531
	In t	wo	occu	pat	ions	• • •	• • • •	• • • •	• • •	• • •	• • •	• •	• • •	• • •	• • •	• • •	• • •	• •	• • •	• •	• •	• •	• • •	5
																								526

ADVANCED DEGREES.

Granted to persons not holding undergraduate degrees from this College.

1877

John Fraser, LL. D. (Dead.)

1883.

John D. Walters, M. S., Manhattan, Kan. Professor of architecture and drawing, Kansas State Agricultural College.

1894.

Arnold Emch, M. S., Solothurn, Switzerland. Professor of mathematics, cantonal college.

Oscar E. Olin, M. A., Akron, Ohio. Professor of economics and history, and instructor in philosophy, Buchtel College.

1898

Elam Bartholomew, M. S., Stockton, Kan. Farmer and botanist. Herbert F. Roberts, M. S., Manhattan, Kan. Professor of botany, Kansas State Agricultural College. George E. Rose, M. S., Rosedale, Kan. Superintendent of city schools.

1902

George Fayette Thompson, M. S. Died in 1906.

1904.

Alice (Rupp) Wishard, M. A., Clinton, Ind. Housewife.

1907.

Edward T. Fairchild, M. A., Topeka, Kan. State superintendent of public instruction.

Charles Wesley Melick, M. S., College Park, Md. Professor of dairying, Maryland Agricultural College.

-John D. Walters, M. S., D. A., Manhattan, Kan. Professor of architecture and drawing, Kansas State Agricultural College.

INDEX.

Administra	page
Admission	157
Advanced degrees	, 235
Agronomy	67
Agronomy course	40
Anatomy	136
Animal husbandry	74
Animal husbandry course	42
Architecture	76
Architecture course	58
Astronomy	86
Attendance	203
Bacteriology	79
Band	15
Board of instruction	
Board of Regents.	5
Botany	4
Buildings	80
Business directions	21
Business directions	160
Cadet Corps	14
Calendar	3
Chemistry	82
Civics	105
Civil engineering	86
Civil engineering course	56
Clinic	139
Courses of study	38
Credits	157
Dairy husbandry	87
Dairy husbandry course	44
Danry short course	149
Degrees	36
Domestic art	
Domestic science	89
Domestic science and art course	92
Domestic science and art short course	62
Drowing	146
Drawing	76
Economics	95
Electives	64
Electrical engineering	99
Electrical engineering course English language and literature	54
English language and literature	96
intomolgy	102
Entrance requirements	157
Examinations	157
in the state of th	160
Experiment Station	29
Experiment Station officers	13
Faculty	5
Farmers' short course	
Financial exhibit	147
Ploriculture	19
Poractur	112
Forestry	147

238 INDEX.

General studies and privileges	159
General information	157
General science course	64
Geology	102
German	104 205
Graduates, list of	233
Graduates, occupation of, summaryGrounds and buildings	21
History	105
History and resources	17
Horticulture	107
Horticulture and forestry course	48
Industrial training	33
Library	112
Materia medica	139
Mathematics	112
Mechanical engineering	113
Mechanical engineering course	52
Medicine veterinary	141
Military training	121
Music	123
Objects of the College	27
Outline of instruction	67
Pedagogy	126
Philosophy	125
Physical training	126
Physics	127
Physiology	138
Poultry husbandry	129
Poultry husbandry course	46
Properatory department	130
Printing	133
Printing course	60
Psychology	125
Public sneaking	135
Record of attendance	203
Short courses	145
Students, list of	161
Substitutions	158
Summary of attendance	203
Summer course in domestic science and art	147
Surgery	141
Terms of admission	157
Terms and vacations	3
Veterinary science	136
Veterinary science course	50
Voung Men's Christian Association	154
Young Women's Christian Association	152
Zoölogy	102